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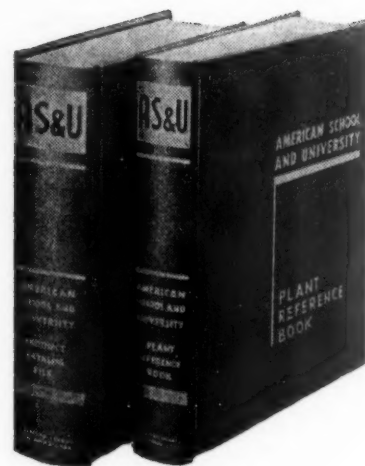
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Incorporated F630, 631
Mutschler Brothers Company . . . E-3/Mu
Tolerton Company, The F-3/To

Cabinets—Storage, Supply

All-Steel Equipment Inc. D-7/AI
Art Metal Construction Co. D-6/Ar
Borroughs Manufacturing Company . D446
Brunswick-Balke-Collender Company,
The D-4/BBC
Cole Steel Equipment Co., Inc. . . D-7/Col
Douglas Fir Plywood Association . A-1/Do
Duralab Equipment Corp. F604
Educators Manufacturing Company D-5/Ed
Fleetwood Furniture Company . . . D-5/FI
Kewaunee Mfg. Co. F-2/Ke
Laboratory Furniture Company, Inc. . F607
Lyon Metal Products,
Incorporated F630, 631
Mutschler Brothers Company . . . E-3/Mu
Nelson Co., Inc., A. R. B-7/Ne
School Equipment Manufacturing
Corporation D-5/Sc
Standard Pressed Steel Co. . . . F-3/SPS
Tolerton Company, The F-3/To

Cabinets—Tote Tray

Educators Manufacturing Company D-5/Ed
Fleetwood Furniture Company . . . D-5/FI
Laboratory Furniture Company, Inc. F607
Mutschler Brothers Company . . . E-3/Mu
Tolerton Company, Inc. F-3/To

Cabinets—Wall Hung

Brunswick-Balke-Collender Company,
The D-4/BBC
Brunswick-Balke-Collender Company,
The B-6/BBC
Carr, Adams & Collier Company . A-5/Co
Coppes, Inc. E-3/Co
Crane Co. C314, 315
Educators Manufacturing Company D-5/Ed
Fleetwood Furniture Company . . . D-5/FI
Lyon Metal Products,
Incorporated F630, 631
Mutschler Brothers Company . . . E-3/Mu
School Equipment Manufacturing
Corporation D-5/Sc
Standard Pressed Steel Co. . . . F-3/SPS
Tolerton Company, The F-3/To

Cabinets—Wardrobe (also see Wardrobes and Racks—Clothing)

All-Steel Equipment Inc. D-7/AI
Brunswick-Balke-Collender Company,
The D-4/BBC
Brunswick-Balke-Collender Company,
The, Horn Division G-1/Ho

Carr, Adams & Collier Company . A-5/Co
Douglas Fir Plywood Association . A-1/Do
Educators Manufacturing Company D-5/Ed
Fleetwood Furniture Company . . . D-5/FI
Mutschler Brothers Company . . . E-3/Mu
Nelson Co., Inc., A. R. B-7/Ne
School Equipment Manufacturing
Corporation D-5/Sc

Cafeteria Equipment

American Desk Manufacturing
Co. D-4/AmD
American Seating D-4/AmS
Barricks Manufacturing Company . D-3/Ba
Brewer-Titchener Corporation, The . D428
Brunswick-Balke-Collender
Company, The D-4/BBC
Chicago Hardware Foundry
Company, The E-1/Ch
Clapper's Manufacturing D429
General Fireproofing Company, The D-7/Ge
Haldeman-Homme Mfg. Co. . . . E-1/Ha
Heywood-Wakefield D-4/He
Howe Folding Furniture, Inc. . . . D431
Institutional Sales & Mfg. D-3/In
Krueger Metal Products Company . D-3/Kr
Metwood Mfg. Co. D432, 433
Midwest Folding Products D436
Mitchell Manufacturing Co. . . . D437-439
Mutschler Brothers Company . . . E-3/Mu
National School Furniture Company . E510
Rol-Fel Table Inc. E-1/Ro
Schieber Sales Company E-1/Sc
Shwayder Brothers, Inc. D-4/Sh
Sico Manufacturing Company, Inc. . . E503

Calculators

International Business Machines
Corporation C-7/IBM
Remington Rand D450, 451

Calipers

Brown & Sharpe Mfg. Co. . . . F613, 614
Lufkin Rule Company, The F612
Millers Falls Company F616
Starrett Co., The L. S. F617

Cameras, Microfilm

Remington Rand D450, 451

Cameras—Television

Dage Television Division D404, 405
General Precision Equipment
Corporation D-1/GPL
Radio Corporation of America . . D-1/RCA
Sarkes Tarzian, Inc. D408, 409

Campaigns—Fund (see Fund Raising)

Canopies—Fiberglass

Alsynite Company of America . . . A-5/AI

Carrels—Study

Art Metal Construction Co. D-6/Ar
Globe-Wernicke Co., The D448, 449
Standard Wood Products
Corporation D-6/St

Carts (see Trucks)

Cases (also see Cabinets)

Cases—Book

All-Steel Equipment Inc. D-7/AI
Art Metal Construction Co. D-6/Ar
Borroughs Manufacturing Company . D446
Cole Steel Equipment Co., Inc. . . D-7/Col
Corry-Jamestown Mfg. Corporation D-7/Co
Educators Manufacturing Company D-5/Ed
Fleetwood Furniture Company . . . D-5/FI
General Fireproofing Company, The D-7/Ge
Globe-Wernicke Co., The D448, 449
Heywood-Wakefield D-4/He
Mutschler Brothers Company . . . E-3/Mu
Standard Wood Products
Corporation D-6/St

Cases—Microscope, Skeleton

Duralab Equipment Corp. F604

Cash Registers

National Cash Register Company . . D447

Casters—Furniture

Bassick Company, The D-4/Ba
Faultless Caster Corporation D445

Ceilings

Alsynite Company of America . . . A-5/AI
Douglas Fir Plywood Association . A-1/Do
Tectum Corporation A108
Timber Structures, Inc. A-1/TI
West Coast Lumbermen's
Association A-1/Wa

Ceilings—Acoustical

Celotex Corporation, The B212
Curtis Lighting Incorporated C-5/Cu
Insulrock Company, Division of the
Flintkote Company A106, 107

Cement

Standard Dry Wall Products, Inc. . . A-3/St

Chair Accessories, Attachments

American Seating D-4/AmS
Chicago Hardware Foundry Company,
The E-1/Ch
Durham Manufacturing Corp. D430
Heywood-Wakefield D-4/He
Krueger Metal Products Company . D-3/Kr
Shwayder Brothers, Incorporated . D-4/Sh

Chair Cart (see Trucks)

Chairs—Auditorium

American Seating D-4/AmS
Chicago Hardware Foundry
Company, The E-1/Ch

Griggs Equipment, Inc. D441
 Heywood-Wakefield D-4/He

Chairs—Chapel, Church

American Seating D-4/AmS
 Durham Manufacturing Corp. D430

Chairs—Folding

American Seating D-4/AmS
 Brewer-Titchener Corporation, The . D428
 Cole Steel Equipment Co., Inc. . . D-7/Col
 Durham Manufacturing Corp. D430
 Heywood-Wakefield D-4/He
 Krueger Metal Products Company . D-3/Kr
 Lyon Metal Products,
 Incorporated F630, 631
 Mutschler Brothers Company E-3/Mu

Chairs—Instructor, Library, Office

All-Steel Equipment Inc. D-7/Al
 American Desk Manufacturing
 Co. D-4/AmD
 American Seating D-4/AmS
 Art Metal Construction Co. D-6/Ar
 Beckley-Cardy B-6/Be
 Brunswick-Balke-Collender
 Company, The D-4/BBC
 Cole Steel Equipment Co., Inc. . . D-7/Col
 General Fireproofing Company, The D-7/Ge
 Globe-Wernicke Co., The D448, 449
 Heywood-Wakefield D-4/He
 Mutschler Brothers Company E-3/Mu
 National School Furniture Company . E510
 Remington Rand D450, 451
 Standard School Equipment Co. . . D442
 Standard Wood Products
 Corporation D-6/St
 Tolerton Company, The F-3/To
 Westfield Manufacturing Company D-4/Col
 Westmoreland Metal Manufacturing
 Corp. D-4/We
 Williams and Brower, Inc. D443

Chairs—Lounge

All-Steel Equipment Inc. D-7/Al
 General Fireproofing Company, The D-7/Ge
 Simmons Company E-4/Si
 Standard Wood Products
 Corporation D-6/St
 Superior Sleeprite Corp. E518, 519

Chairs—Posture

All-Steel Equipment Inc. D-7/Al
 Art Metal Construction Co. D-6/Ar
 Cole Steel Equipment Co., Inc. . . D-7/Col
 General Fireproofing Company, The D-7/Ge
 Globe-Wernicke Co., The D448, 449

Chairs—Sousaphone (see Stands)

Chairs—Student

American Desk Manufacturing
 Co. D-4/AmD
 American Seating D-4/AmS
 Beckley-Cardy B-6/Be
 Brunswick-Balke-Collender
 Company, The D-4/BBC
 Chicago Hardware Foundry
 Company, The E-1/Ch

Griggs Equipment, Inc. D441
 Heywood-Wakefield D-4/He
 National School Furniture Company . E510
 Shwayder Brothers, Incorporated . D-4/Sh
 Standard School Equipment Co. D442
 Westfield Manufacturing Company D-4/Col
 Westmoreland Metal Manufacturing
 Corp. D-4/We
 Williams and Brower, Inc. D443

Chairs—Tablet Arm

American Desk Manufacturing
 Co. D-4/AmD
 American Seating D-4/AmS
 Beckley-Cardy B-6/Be
 Brunswick-Balke-Collender Company,
 The D-4/BBC
 Chicago Hardware Foundry Company,
 The E-1/Ch
 Cole Steel Equipment Co., Inc. . . D-7/Col
 Durham Manufacturing Corp. D430
 Griggs Equipment, Inc. D441
 Heywood-Wakefield D-4/He
 Shwayder Brothers, Incorporated . D-4/Sh
 Standard School Equipment Co. D442
 Standard Wood Products
 Corporation D-6/St
 Westfield Manufacturing Company D-4/Col
 Westmoreland Metal Manufacturing
 Corp. D-4/We
 Williams and Brower, Inc. D443

Chairs—Wall or Floor Anchored

American Desk Manufacturing
 Co. D-4/AmD
 American Seating D-4/AmS
 Chicago Hardware Foundry Company,
 The E-1/Ch

Chalk

Beckley-Cardy B-6/Be

Chalkboard Frames, Trim (see Mountings)

Chalkboards

Beckley-Cardy B-6/Be
 Brunswick-Balke-Collender
 Company, The B-6/BBC
 Claridge Products and Equipment
 Incorporated B217
 Kewaunee Mfg. Co. F-2/Ke
 Pennsylvania Slate Producers Guild,
 Inc. B219

Check Room Equipment (see Racks—Clothing)

Checks—Door (see Closers)

Chests—Clothing

Brunswick-Balke-Collender Company,
 The, Horn Division G-1/Ho
 Simmons Company E-4/Si
 Superior Sleeprite Corp. E518, 519

Chisels

Greenlee Tool Co. F611

Chlorine

Olin Mathieson Chemical Corporation G726

Chlorinating Equipment

Olin Mathieson Chemical Corporation G726

Chopping Machines—Food

United Manufacturers E512

Choral Stands (see Stands— Band, Choral)

Chucks

Brown & Sharpe Mfg. Co. F613, 614
 South Bend Lathe Works F-3/So

Chutes—Mail

Cutler Mail Chute Company B224

Circuit Breakers

Adam Electric Company, Frank . . D-2/Ad
 Davis Manufacturing Company,
 Ariel D-2/Da
 Graybar Electric Company, Inc. C327

Circuit Selector Panels (see Panels—Lighting and Control)

Clamps—Chairs (see Chair Accessories, Attachments)

Classroom Seating (see Chairs)

Cleaning Compound—Floor

Hillyard Chemical Company H-1/Hi
 Huntington Laboratories
 Incorporated H-1/Hu
 Legge Company, Inc., Walter G. . . H808
 Multi-Clean Products, Inc. H-1/Mu

Climbing Structures

Game-Time, Inc. G727

Clocks

Graybar Electric Company, Inc. C327
 International Business Machines
 Corporation C-7/IBM

Clocks—Program

International Business Machines Corporation C-7/IBM
 Montgomery Manufacturing Company C328

Closers—Door

Norton Door Closers B221
 Rixson Co., Oscar C., The B-8/Ri
 Yale & Towne Manufacturing Company, The B-8/Ya

Closets—Dormitory

Brunswick-Balke-Collender Company, The, Horn Division G-1/Ho
 Simmons Company E-4/Si

Cloth—Map, Photo, Label, Tag

Holliston Mills, Inc., The D440

Collets

Brown & Sharpe Mfg. Co. F613, 614
 South Bend Lathe Works F-3/So

Colorimeter

Klett Manufacturing Co. F603

**Communication Systems
(see Intercommunication Systems)****Compartments—Toilet (see Partitions)****Computers**

International Business Machines Corporation C-7/IBM

Concrete Coatings, Hardeners, Sealers

Standard Dry Wall Products, Inc. . A-3/St

Containers—Waste

Bennett Manufacturing Company ... H812
 National Vulcanized Fibre Co. H814
 United Metal Cabinet Corp. H813
 Wood Company, John, Superior Metalware Division H815

**Control Systems—Electronic
(see Data Processing Machines)****Cooking Units**

Cleveland Range Company, The E505

Gifford-Wood Company E506
 Groen Mfg. Co. E507
 Hotpoint Co. E-2/Ho
 Hubbert & Son, Inc., B. H. E508
 Market Forge Company E509
 Van Range Co., The John E513
 Wear-Ever Aluminum, Inc. ... E514, 515

Coolers—Bottle Beverage

Century Brass Works, Inc. C-3/Ce
 Cordley & Hayes C317
 Puffer-Hubbard Refrigerator Company E511

Coolers—Drinking Water

Century Brass Works, Inc. C-3/Ce
 Cordley & Hayes C317
 Taylor Co., The Halsey W. C319

Coping

Natco Corporation B209
 Pennsylvania Slate Producers Guild, Inc. B219

Cork for Bulletin Boards

Gold Seal, Congoleum-Nairn Inc. ... B201

Corkboard (see Bulletin Board)**Cots—Folding**

Superior Sleeprite Corp. E518, 519

Counter Tops (see Surfacing)**Credenza (see Cabinets—Storage and Cases—Book)****Curtain-Walls**

Adams & Westlake Company, The A114, 115
 Bayley Company, The William A113
 Erie Enameling Company, The A101
 Marmet Corporation A118
 Michaels Art Bronze Co., Inc., The .. B227
 Truscon Steel Division, Republic Steel A122, 123
 Trussbilt, Division of Siems Bros., Inc. A110, 111
 Valley Metal Products Company ... A125

Curtains—Stage

Colonial Plastics Company D416
 Knoxville Scenic Studios Incorporated D424
 Novelty Scenic Studios, Inc. D-2/Ne
 Pittsburgh Stage, Inc. D426

Curtains—Window

Colonial Plastics Company D416
 Knoxville Scenic Studios Incorporated D424
 Novelty Scenic Studios, Inc. D-2/Ne
 Pittsburgh Stage, Inc. D426

Custodian Supplies

Atlas Floor Surfacing Machinery Corp. H-1/Ai
 Beckley-Cardy B-6/Be
 Clarke Sanding Machine Company . H803
 Devere Company H822
 Eclipse Lawn Mower Co., The H823
 General Floorcraft, Inc. H804
 Gravely Tractors, Incorporated H824
 Hillyard Chemical Company H-1/HI
 Holt Manufacturing Co. H806
 Huntington Laboratories Incorporated H-1/Hu
 Jennison-Wright Corporation, The . B-1/Je
 Kent Company, Inc., The H807
 Legge Company, Inc., Walter G. ... H808
 Louisville Ladder Company H809
 Multi-Clean Products, Inc. H-1/Mu
 Spencer Turbine Company, The H810
 United Floor Machine Company, Inc. H811
 Worthington Mower Company .. H-4/Wo

Cutlery

Wear-Ever Aluminum, Inc. ... E514, 515

Cutters—Milling

Brown & Sharpe Mfg. Co. F613, 614

Cycloramas

Knoxville Scenic Studios Incorporated D424
 Novelty Scenic Studios, Inc. D-2/No
 Pittsburgh Stage, Inc. D426

Dampers

Rittling Corporation, The C307

Data Processing Machines

International Business Machines Corporation C-7/IBM

Demineralizers—Water

Barnstead Still & Sterilizer Co. F601

Desk Cups

Faultless Caster Corporation D445

Desk, Chair—Attached

American Desk Manufacturing Co. D-4/AmD
 American Seating D-4/AmS
 Beckley-Cardy B-6/Be
 Brunswick-Balke-Collender Company, The D-4/BBC
 Heywood-Wakefield D-4/He
 Shwayder Brothers, Incorporated . D-4/Sh
 Westfield Manufacturing Company D-4/Col
 Westmoreland Metal Manufacturing Corp. D-4/We

Desk Tops (see Surfacing)

Desks—Dormitory

Simmons Company E-4/Si
Superior Sleeprite Corp. E518, 519

Desks—Instructor, Office

All-Steel Equipment, Inc. D-7/AI
American Desk Manufacturing
Co. D-4/AmD
American Seating D-4/AmS
Art Metal Construction Co. D-6/Ar
Beckley-Cardy B-6/Be
Brunswick-Balke-Collender Company,
The D-4/BBC
Cole Steel Equipment Co., Inc. .. D-7/Col
Corry-Jamestown Mfg. Corporation D-7/Co
General Fireproofing Company,
The D-7/Ge
Globe-Wernicke Co., The D448, 449
Griggs Equipment, Inc. D441
Kewaunee Mfg. Co. F-2/Ke
Mutschler Brothers Company E-3/Mu
Shwayder Brothers, Incorporated . D-4/Sh
Standard School Equipment Co. D442
Standard Wood Products
Corporation D-6/St
Western Manufacturing Co. D452
Westmoreland Metal Manufacturing
Corp. D-4/We
Williams and Brower, Inc. D443

Desks—Library Charging

Standard Wood Products
Corporation D-6/Si

Desks—Secretary, Typing

All-Steel Equipment Inc. D-7/AI
Brunswick-Balke-Collender
Company, The D-4/BBC
Cole Steel Equipment Co., Inc. .. D-7/Col
Corry-Jamestown Mfg. Corporation D-7/Co
General Fireproofing Company,
The D-7/Ge
Globe-Wernicke Co., The D448, 449

Desks—Sewing

Mutschler Brothers Company E-3/Mu
Singer Sewing Machine Co. E520

Desks—Student

American Desk Manufacturing
Co. D-4/AmD
American Seating D-4/AmS
Beckley-Cardy B-6/Be
Brunswick-Balke-Collender
Company, The D-4/BBC
Cole Steel Equipment Co., Inc. .. D-7/Col
Griggs Equipment, Inc. D441
Heywood-Wakefield D-4/He
Shwayder Brothers, Incorporated . D-4/Sh
Standard School Equipment Co. D442
Westfield Manufacturing Company D-4/Col
Westmoreland Metal Manufacturing
Corp. D-4/We
Williams and Brower, Inc. D443

**Desks—Tablet Arm
(see Chairs)****Desks—Wall Hung**

Ames Company, W. R. B-6/Am
Simmons Company E-4/Si

Destructors (see Incinerators)**Detergent (see Cleaning
Compounds)****Dial Indicators**

Starrett Co., The L. S. F617

Dimmers

Adam Electric Company, Frank .. D-2/Ad
Capitol Stage Lighting Co., Inc. ... D415
Century Lighting, Inc. D418, 419
Davis Manufacturing Company,
Ariel D-2/Da
Lumitron Division, Metropolitan
Electric Mfg. Co. D422, 423

Dinnerware

Boonton Molding Co. E-1/Bo
Keyes Fibre Company E504

Directories

McGann Bronze Incorporated B228
Michaels Art Bronze Co., Inc., The .. B227

Dishes—Paper

Keyes Fibre Company E504

Dishes—Plastic

Boonton Molding Co. E-1/Bo
Keyes Fibre Company E504

Dishwashing Machines

United Manufacturers E512

Dispenser—Paraffin

Barnstead Still & Sterilizer Co. F601

**Disposals—Waste
(see Incinerators)****Diving Boards**

American Trampoline Co., The 877

**Door Hardware
(see Hardware—Door)****Doors—Access**

Inland Steel Products Company B218

Doors, Aluminum

Carr, Adams & Collier Company . A-5/Co
Marmet Corporation A118

Doors—Bronze

McGann Bronze Incorporated B228
Michaels Art Bronze Co., Inc., The .. B227

Doors—Fire

Cornell Iron Works, Inc. A112

Doors—Rolling

Cornell Iron Works, Inc. A112

Doors—Steel

Truscon Steel Division, Republic
Steel A122, 123
Trussbilt, Division of Siems Bras.,
Inc. A110, 111

Drapery (see Curtains)**Drapery—Window
Darkening**

Colonial Plastics Company D416

Drawers

Carr, Adams & Collier Company . A-5/Co
Coppes, Inc. E-3/Co
Lyon Metal Products,
Incorporated F630, 631
Mutschler Brothers Company E-3/Mu
Tolerton Company, The F-3/To

**Dressing Compartments
(see Partitions)****Drills**

Atlas Press Company F618, 619
Cincinnati Lathe and Tool Co. . F622, 623
Duro Metal Products Company F620
Millers Falls Company F616

**Driving Trainers (see Training
Equipment—Driving)****Dryers—Hands, Hair**

American Dryer Corp. C320
Chicago Hardware Foundry Company,
The C321

Duplicating Machines

Remington Rand D450, 451

Easel

Brunswick-Balke-Collender
Company, The B-6/BBC

Electric Dryers

American Dryer Corp. C320
Chicago Hardware Foundry Company,
The C321

**Electronic Training
(see Training Program)****Enclosures—Tennis Court**

Anchor Fence Division, Anchor Post
Products, Inc. H816
Colorado Fuel and Iron
Corporation, The H817
Cyclone Fence Department,
United States Steel H820

Erasers—Chalkboard

Beckley-Cardy B-6/Be

Exhausters (see Fans)**Exit Devices—Panic**

Vonnegut Hardware Co. B222
Yale & Towne Manufacturing
Company, The B-8/Ya

**Fabrics—Bookbinding,
Reinforcing**

Holliston Mills, Inc., The D440

Fans

Graybar Electric Company, Inc. C327

Fans—Exhaust

Nesbitt, Inc., John J. C-1/Nes
Swartwout Company, The C310

Fencing

Alsynite Company of America ... A-5/AI
Anchor Fence Division, Anchor
Post Products, Inc. H816
Colorado Fuel and Iron Corporation,
The H817
Continental Steel Corporation H818
Cyclone Fence Department,
United States Steel H820

Files (see Cabinets—Filing)**Filing Systems
(see Record Systems)****Films (see Teaching Aids)****Fire Protection
(see Sprinkler Systems)****Fixtures—Lighting, Fluorescent**

Curtis Lighting Incorporated C-5/Cu
Graybar Electric Company, Inc. C327
Guth Company, The Edwin F. C323
Holophane Company, Inc. ... C324, 325
Sunbeam Lighting Company C-5/Su

**Fixtures—Lighting,
Incandescent**

Curtis Lighting Incorporated C-5/Cu
Graybar Electric Company, Inc. C327
Guth Company, The Edwin F. C323
Holophane Company, Inc. ... C324, 325
Meierjohan-Wengler B226
Sunbeam Lighting Company C-5/Su

Flannelboard

Brunswick-Balke-Collender
Company, The B-6/BBC

**Floodlighting
(see Lighting—Flood)****Floor Coverings
(see Tile and Linoleum)****Floor Finishes**

Hillyard Chemical Company H-1/Hi
Huntington Laboratories
Incorporated H-1/Hu
Jennison-Wright Corporation, The . B-1/Je
Legge Company, Inc., Walter G. ... H808
Multi-Clean Products, Inc. H-1/Mu

**Floor Maintenance Machines
(Scrubbing, Waxing,
Sanding, etc.)**

Atlas Floor Surfacing Machinery
Corp. H-1/At
Brewer Electric Manufacturing Co. . H801
Cassidy Products, Inc. H802
Clarke Sanding Machine Company . H803
General Floorcraft, Inc. H804
Hild Floor Machine Company H805
Holt Manufacturing Co. H806
Kent Company, Inc., The H807
Multi-Clean Products, Inc. H-1/Mu
United Floor Machine Company, Inc. H811

**Floor Treatments
(see Cleaning Compounds
and Floor Finishes)****Flooring—Abrasive**

American Abrasive Metals Co. B202, 203

American Mason Safety Tread Co. . B205
Weoster Products Inc. B208

Flooring—Asphalt for

American Bitumuls & Asphalt
Company H821

Flooring—Brick

Natco Corporation B209

Flooring—Sub

Douglas Fir Plywood Association . A-1/Do
West Coast Lumbermen's
Association A-1/We

Flooring—Tile (see Tile)**Flooring—Wood, Wood Block**

International Paper Company,
Long-Bell Division B204
Jennison-Wright Corporation, The . B-1/Je
West Coast Lumbermen's
Association A-1/We

Fluorimeter

Klett Manufacturing Co. F603

Food Banks—Cold, Hot

THERMcOLD Corporation E-2/McC

Food Service

Food Warming Equipment Co., Inc. . E502
THERMcOLD Corporation E-2/McC
Van Range Co., The John E513
Victory Metal Manufacturing Corp. . E516

**Food Service—Mobile
(see Trucks—Food)****Food Warmer**

Food Warming Equipment Co., Inc. . E502
Hotpoint Co. E-2/He

**Footlights
(see Lighting—Foot)****Forms—Concrete, Wood**

Douglas Fir Plywood Association . A-1/Do

Forms—Inserts for

Buffalo Products Co. B220

Fountains—Drinking

Century Brass Works, Inc. C-3/Ce
 Cordley & Hayes C317
 Crane Co. C314, 315
 Taylor Co., The Halsey W. C319

Frames—Door

Trussbilt, Division of Siems Bros.,
 Inc. A110, 111

Frames—Motion Picture Screen

Knoxville Scenic Studios Incorporated D424

**Framing—Building
(see Building Construction)****Freezers**

Puffer-Hubbard Refrigerator Company E511
 THERMcOLD Corporation E-2/McC
 Victory Metal Manufacturing Corp. . E516

Fryers

Gifford-Wood Company E506
 Hotpoint Co. E-2/Ho

Fume Hoods

Duralab Equipment Corp. F604
 Kewaunee Mfg. Co. F-2/Ke
 Knight Co., Maurice A. F605
 Laboratory Furniture Company, Inc. . F607
 Metalab Equipment Company ... F-2/Me

Fund Raising

American City Bureau 29-32

Fuses

Graybar Electric Company, Inc. C327

Gage Blocks

Brown & Sharpe Mfg. Co. F613, 614

Gages

Brown & Sharpe Mfg. Co. F613, 614

**Gang Mowers
(see Mowers—Lawn)****Gates—Chain Link, Wire**

Anchor Fence Division, Anchor Post
 Products, Inc. H816
 Continental Steel Corporation H818
 Cyclone Fence Department,
 United States Steel H820
 Superior Wire & Iron Products B-5/Su

Gates—Folding

Superior Wire & Iron Products B-5/Su

Generators—Laboratory

Radio Corporation of America .. D-1/RCA

**Generators—Steam
(see Boilers)****Germicide**

Olin Mathieson Chemical
 Corporation G726

Glass—Door

Libbey-Owens-Ford Glass
 Company A-5/LOF

Glass—Glare Reducing

American Window Glass
 Company A-5/AmW
 Kimble Glass Company A116, 117
 Mississippi Glass Company A-5/Mi
 Pittsburgh Plate Glass
 Company A120, 121

Glass—Heat Reducing

American Window Glass
 Company A-5/AmW
 Mississippi Glass Company A-5/Mi
 Pittsburgh Plate Glass Company A120, 121

Glass—Insulating

Kimble Glass Company A116, 117
 Libbey-Owens-Ford Glass
 Company A-5/LOF
 Pittsburgh Plate Glass Company A120, 121

Glass—Plastic

Alsynite Company of America .. A-5/Al

Glass—Roof Panels

Alsynite Company of America .. A-5/Al
 Kimble Glass Company A116, 117
 Mississippi Glass Company A-5/Mi

Glass—Safety, Shock Resisting

American Window Glass
 Company A-5/AmW
 Kimble Glass Company A116, 117
 Libbey-Owens-Ford Glass
 Company A-5/LOF
 Mississippi Glass Company A-5/Mi
 Pittsburgh Plate Glass
 Company A120, 121

Glass—Window

American Window Glass
 Company A-5/AmW

Kimble Glass Company A116, 117
 Libbey-Owens-Ford Glass
 Company A-5/LOF
 Mississippi Glass Company A-5/Mi
 Pittsburgh Corning Corporation ... A119
 Pittsburgh Plate Glass
 Company A120, 121

Glass—Wire

Mississippi Glass Company A-5/Mi

**Glass Block—Glare Reducing,
Insulating, Shock Resisting**

Kimble Glass Company A116, 117
 Pittsburgh Corning Corporation ... A119

Glides—Furniture

Basick Company, The D-4/Ba
 Faultless Caster Corporation D445

Goal Posts—Football

Cyclone Fence Department,
 United States Steel H820
 Game-Time, Inc. G727

Gouges

Greenlee Tool Co. F611

Grandstands

American Bridge G701
 Arrow Bleacher Company G702
 Hussey Mfg. Co., Inc. G704
 Pittsburgh-Des Moines Steel Company G708
 Snyder Tank Corporation G711
 Standard Steel and Supply Company G712
 Winkler Mfg. Co., Inc. G-1/Wi

Greenhouses

Lord and Burnham F608, 609

Griddle

Hotpoint Co. E-2/Ho

Grilles—Rolling, Sliding

Cornell Iron Works, Inc. A112

Grinding Machines

Brown & Sharpe Mfg. Co. ... F613, 614
 Cincinnati Milling Machine Co.,
 The F-3/Ci
 Millers Falls Company F616
 Oliver Machinery Company F624
 South Bend Lathe Works F-3/So

Guards—Window

Superior Wire & Iron Products ... B-5/Su

Gym Apparatus

All-American Scoreboard Corporation G717
 American Trampoline Co., The 877
 Brown Company, M. D., The G718, 719
 Brunswick-Balke-Collender Company,
 The, Horn Division G-1/Ho
 Fair-Play Mfg. Co. G720, 721
 Game-Time, Inc. G727
 Medart Products, Inc., Fred .. G705-707
 Naden Industries G722
 Nissen Trampoline Co. G-2/Ni
 Wayne Iron Works G713-715

Hacksaws (see Saws)**Hammers**

Millers Falls Company F616

Hardware—Door

Glynn-Johnson Corporation B-8/Gl
 Norton Door Closers B221
 Rixson Co., Oscar C., The B-8/Ri
 Vonnegut Hardware Co. B222
 Yale & Towne Manufacturing
 Company, The B-8/Ya

Hardware—Stage

Automatic Devices Company D413
 Knoxville Scenic Studios
 Incorporated D424
 Novelty Scenic Studios, Inc. D-2/No
 Pittsburgh Stage, Inc. D426
 Vallen Inc. D427

Heater—Water, Lab

Barnstead Still & Sterilizer Co. F601

Heating—Baseboard

Electromode, Division of Commercial
 Controls Corporation C301
 Rittling Corporation, The C307
 Vulcan Radiator Company, The .. C-1/Vu

Heating Systems

Electromode, Division of Commercial
 Controls Corporation C301
 International Boiler Works Co., The C303
 Johnston Brothers, Inc. C302
 Lennox Industries Inc. C304, 305
 Nash Engineering Company, The .. C306
 Nelson, Herman C-1/Nel
 Nesbitt, Inc., John J. C-1/Nes
 Norman Products Co. C-1/No
 Powers Regulator Co., The C-1/Po
 Rittling Corporation, The C307
 Smith Company, Inc., H. B. C308
 Spencer Heater C309
 Titusville Iron Works C311
 Vulcan Radiator Company, The .. C-1/Vu

**Heating and Ventilating Units
(see Unit Heating and
Ventilating)****High Fidelity Components**

Newcomb Audio Products Co. D410, 411
 Radio Corporation of America .. D-1/RCA
 University Loudspeakers, Inc. D412

Holders—Door (see Hardware)**Honor Rolls (see Plaques)****Horns (see Bells)****Hotplate**

Hotpoint Co. E-2/Ho

Hypochlorite

Olin Mathieson Chemical Corporation G726

Incinerators

Goder Incinerators, Joseph C312
 Morse Boulder Destructor Company . C313

Insulation

Douglas Fir Plywood Association A-1/Do
 Insulrock Company, Division of the
 Flintkote Company A106, 107
 Pittsburgh Corning Corporation A119

Intercommunication Systems

Bogen Company, David D402, 403
 Graybar Electric Company, Inc. C327
 Radio Corporation of America .. D-1/RCA

Jar Mills

United States Stoneware Co., The .. F606

Jointers

Atlas Press Company F618, 619
 Duro Metal Products Company F620
 Oliver Machinery Company F624

Joists—Steel

Laclede Steel Company A102
 Macomber Incorporated A103
 Truscon Steel Division, Republic
 Steel A122, 123

Kettles—Cooking

Cleveland Range Company, The .. E505
 Groen Mfg. Co. E507
 Hubbert & Son, Inc., B. H. E508
 Market Forge Company E509
 Van Range Co., The John E513
 Wear-Ever Aluminum, Inc. ... E514, 515

Kilns

Harrop Electric Furnace Division F610

Kitchens—Custom Built

Coppes, Inc. E-3/Co

Knives—Kitchen (see Cutlery)**Knives—Shop**

Greenlee Tool Co. F611
 Oliver Machinery Company F624
 Starrett Co., The L. S. F617

Knobs—Door

Yale & Towne Manufacturing
 Company, The B-8/Ya

**Laboratory Apparatus,
Instruments**

Barnstead Still & Sterilizer Co. F601
 Klett Manufacturing Co. F603
 Philco Corporation F-1/Ph
 United States Stoneware Co., The ... F606

Ladder Trucks

Rol-Away Truck Mfg. Co., Inc. D434, 435

Ladders

Louisville Ladder Company H809
 Rol-Away Truck Mfg. Co., Inc. D434, 435

Lamps—Desk

Cole Steel Equipment Co., Inc. .. D-7/Col

Lath—Metal

Truscon Steel Division,
 Republic Steel A122, 123

Lathes

Atlas Press Company F618, 619
 Cincinnati Lathe and Tool Co. . F622, 623
 Duro Metal Products Company F620
 LeBlond Machine Tool Company,
 The R. K. F621
 Logan Engineering Co. F615
 Oliver Machinery Company F624
 Sheldon Machine Co., Inc. F-3/Sh
 South Bend Lathe Works F-3/So

Lavatories

Crane Co. C314, 315

Lawn Mowers (see Mowers)**Lecterns**

American Seating D-4/AmS
 Sound-Craft Systems D-4/So

Letter Boxes

Corbin Wood Products Division, The
American Hardware Corporation B223
Cutler Mail Chute Company B224

Letters—Architectural

Lake Shore Markers, Inc. B225
McGann Bronze Incorporated B228
Meierjohan-Wengler B226
Michaels Art Bronze Co., Inc., The . B227

Levels (see Tools—Measuring)**Lids for Waste Receptacles**

United Metal Cabinet Corp. H813

Lift—Orchestra, Stage

Knoxville Scenic Studios Incorporated D424

Light Adjustment (see Blinds, Curtains, Shades)**Lighting Control—Electrical**

Adam Electric Company, Frank .. D-2/Ad
Capitol Stage Lighting Co., Inc. D415
Century Lighting, Inc. D418, 419
Davis Manufacturing Company,
Ariel D-2/Da
Kliegl Bros. D420, 421
Lumitron Division, Metropolitan
Electric Mfg. Co. D422, 423

**Lighting Fixtures
(see Fixtures—Lighting)****Lighting—Flood**

Century Lighting, Inc. D418, 419
Crouse-Hinds Company G724
General Electric Company, Outdoor
Lighting Department G725
Graybar Electric Company, Inc. C327
Kliegl Bros. D420, 421

Lighting—Foot

Capitol Stage Lighting Co., Inc. D415
Century Lighting, Inc. D418, 419
Kliegl Bros. D420, 421

Lighting—Spot

Best Devices Company, Inc., The .. D414
Capitol Stage Lighting Co., Inc. D415
Century Lighting, Inc. D418, 419
Davis Manufacturing Company,
Ariel D-2/Da
Kliegl Bros. D420, 421
Novelty Scenic Studios, Inc. D-2/No
Strong Electric Corporation, The .. D425

Lighting—Stage

Adam Electric Company, Frank .. D-2/Ad
Best Devices Company, Inc. D414
Capitol Stage Lighting Co., Inc. D415
Century Lighting, Inc. D418, 419
Davis Manufacturing Company,
Ariel D-2/Da
Grand Stage Lighting Co. D417
Kliegl Bros. D420, 421
Lumitron Division, Metropolitan
Electric Mfg. Co. D422, 423
Novelty Scenic Studios, Inc. D-2/No
Strong Electric Corporation, The D425

Lighting Systems—Emergency

Exide Industrial Division, The Electric
Storage Battery Company C322

**Lighting Systems and
Specialties**

Adam Electric Company, Frank .. D-2/Ad
Century Lighting, Inc. D418, 419
Crouse-Hinds Company G724
Curtis Lighting Incorporated C-5/Cu
Davis Manufacturing Company,
Ariel D-2/Da
General Electric Company, Apparatus
Sales Division C323
General Electric Company, Outdoor
Lighting Department G725
Grand Stage Lighting Co. D417
Holephane Company, Inc. C324, 325
Kliegl Bros. D420, 421
Lumitron Division, Metropolitan
Electric Mfg. Co. D422, 423
Pittsburgh Stage, Inc. D426
Strong Electric Corporation, The D425
Sunbeam Lighting Company C-5/Su

Linoleum

Gold Seal, Congoleum-Nairn Inc. .. B201

Lockers

All-Steel Equipment Inc. D-7/Al
DeBourgh Manufacturing Co. F-4/Da
Lyon Metal Products,
Incorporated F630, 631
Veget-Peterson Company B-7/Va

Locks—Cabinet, Drawer

Dudley Lock Corporation F627
National Lock Company F629
Yale & Towne Manufacturing
Company, The B-8/Ya

Locks—Combination

Dudley Lock Corporation F627
Master Lock Company F628
National Lock Company F629
Yale & Towne Manufacturing
Company, The B-8/Ya

Locksets—Door

Yale & Towne Manufacturing
Company, The B-8/Ya

Loudspeakers (see Speakers)**Machines for Operating Stage
Curtains (see Motors)****Mail Boxes (see Letter Boxes)****Mail Handling Systems**

Corbin Wood Products Division, The
American Hardware Corporation . B223
Cutler Mail Chute Company B224

**Maintenance Supplies
(see Custodian Supplies)****Masonry Restoration**

Horn Corporation, A. C. A-3/Ho
Standard Dry Wall Products, Inc. . A-3/St

Mats—Floor, Rubber

Melflex Products Company, Inc. B206
Mussion Rubber Co., The R. C. B207

Mats—Floor, Vinyl, Plastic

Melflex Products Company, Inc. B206

Mattresses

Superior Sleeprite Corp. E518, 519

**Measuring Equipment—
Electronic**

Brown & Sharpe Mfg. Co. F613, 614

Memorial Plaques

Lake Shore Markers, Inc. B225
McGann Bronze Incorporated B228
Meierjohan-Wengler B226
Michaels Art Bronze Co., Inc., The .. B227

Merry-Go-Rounds

Game-Time, Inc. G727

Meter—Purity

Barnstead Still & Sterilizer Co. F601

**Microfilming (see Cameras—
Microfilming)****Micrometers**

Brown & Sharpe Mfg. Co. F613, 614
Lufkin Rule Company, The F612
Millers Falls Company F616
Starrett Co., The L. S. F617

**Microphone and Headsets
Combination**

Brown Company, M. D., The .. G718, 719

MicrophonesRadio Corporation of America .. D-1/RCA
Sound-Craft Systems D-4/So**Microscope—Electron**

Radio Corporation of America .. D-1/RCA

Mill Jars (see Jar Mills)**Milling Machines**Atlas Press Company F618, 619
Brown & Sharpe Mfg. Co. F613, 614
Cincinnati Milling Machine Co., The F-3/Ci
Sheldon Machine Co., Inc. F-3/Sh
South Bend Lathe Works F-3/So
U. S. Burke Machine Tool Div. F626**Mitre Boxes**

Millers Falls Company F616

Mixers—Food

United Manufacturers E512

MortarHorn Corporation, A. C. A-3/Ho
Standard Dry Wall Products, Inc. .. A-3/St**Mortisers**

Oliver Machinery Company F624

Motion Picture ScreensDa-Lite Screen Company D406
Lightmaster Screen Co. D407**Motors for Operating Stage
Curtains**Automatic Devices Company D413
Novelty Scenic Studios, Inc. D-2/No**Mountings—Chalkboard,
Tackboard, Pegboard**Ames Company, W. R. B-6/Am
Beckley-Cardy B-6/Be
Claridge Products and Equipment
Incorporated B217
Inland Steel Products Company B218**Mowers—Lawn, Hand**Eclipse Lawn Mower Co., The H823
Hal-Gan Products, Inc. H825**Mowers—Lawn, Power**Devere Company H822
Eclipse Lawn Mower Co., The H823
Gravely Tractors, Incorporated H824
Hal-Gan Products, Inc. H825
Worthington Mower Company .. H-4/Wo**Mulcher—Leaf**Devere Company H822
Gravely Tractors, Incorporated H824
Hal-Gan Products, Inc. H825
Worthington Mower Company .. H-4/Wo**Name Plates (see Plaques)****Nets—Tennis**Cyclone Fence Department,
United States Steel H820
Game-Time, Inc. G727**Office Supplies**All-Steel Equipment Inc. D-7/Al
Art Metal Construction Co. D-6/Ar
Beckley-Cardy B-6/Be
Globe-Wernicke Co., The D448, 449
Remington Rand D450, 451**Oscilloscope**

Radio Corporation of America .. D-1/RCA

**Outlet Plates
(see Plates—Outlet)****Ovens**

Hotpoint Co. E-2/Ho

PadlocksDudley Lock Corporation F627
Master Lock Company F628
National Lock Company F629
Yale & Towne Manufacturing
Company, The B-8/Ya**Pads, Kneeling (see Chair
Accessories, Attachments)****Paint**

Standard Dry Wall Products, Inc. . A-3/St

Paint—Concrete FloorHuntington Laboratories
Incorporated H-1/Hu**Panels—Electronic
Demonstration**

Philco Corporation F-1/Ph

**Panels—Exterior Wall (see
Curtain Walls)****Panels—Lighting and Control**Adam Electric Company, Frank .. D-2/Ad
Davis Manufacturing Company,
Ariel D-2/Da
Graybar Electric Company, Inc. C327**Panels—Porcelain, Enamel**

Erie Enameling Company, The A101

Panels—Translucent Plastic

Alsynite Company of America ... A-5/Al

Panels—Wall (see Walls)**Panic Exit Devices
(see Exit Devices)****Pans—Cooking**

Wear-Ever Aluminum, Inc. .. E514, 515

Paper—Carbon

Remington Rand D450, 451

Partitions—DressingSanymetal Products Company,
Inc., The B214, 215**Partitions—Folding, Electrical**Brunswick-Balke-Collender Company,
The, Horn Division G-1/Ho
Wayne Iron Works B216**Partitions—Folding, Manual**Brunswick-Balke-Collender Company,
The, Horn Division G-1/Ho
Torjesen, Inc. B213**Partitions—Movable**Alsynite Company of America ... A-5/Al
Barricks Manufacturing Company D-3/Ba
General Fireproofing Company
The D-7/Ga
Vogel-Peterson Company B-7/Vo**Partitions—Shower**Alsynite Company of America ... A-5/Al
Pennsylvania Slate Producers
Guild, Inc. B219
Sanymetal Products Company, Inc.,
The B214, 215

Partitions—Toilet

Pennsylvania Slate Producers
Guild, Inc. B219
Sanymetal Products Company,
Inc., The B214, 215

Partitions—Urinal

Sanymetal Products Company,
Inc., The B214, 215

Partitions—Wire Mesh

Cornell Iron Works, Inc. A112
Superior Wire & Iron Products .. B-5/Su

Paving (see Surfacing)**Peeling Machines—Vegetable**

Gifford-Wood Company E506
United Manufacturers E512

Pegboards

Beckley-Cardy B-6/Be
Brunswick-Balke-Collender
Company, The B-6/BBC

**Phonographs
(see Transcription Players)****Photometer**

Klett Manufacturing Co. F603

**Photoreproduction Machines
(see Duplicating Machines)****Physical Training Equipment
(see Training Equipment—
Physical)****Pipe—Sewer**

Natco Corporation B209

Pipe, Fittings—Laboratory

Barnstead Still & Sterilizer Co. F601
Knight Co., Maurice A. F605

Pitchers—Beverage

Wear-Ever Aluminum, Inc. ... E514, 515

**Plan Files
(see Cabinets—Planfile)****Planes**

Millers Falls Company F616

Plaques

Lake Shore Markers, Inc. B225
McGann Bronze Incorporated B228
Meierjohan-Wengler B226
Michaels Art Bronze Co., Inc., The .. B227

**Plastic Surfacing
(see Surfacing)****Plastics—Corrugated and Flat
Panels (see Panels—
Translucent Plastic)****Plates (see Dishes)****Plates—Outlet**

Graybar Electric Company, Inc. C327

**Platforms
(see Stages, Platforms)****Playground Equipment**

American Trampoline Co., The 877
Anchor Fence Division, Anchor Post
Products, Inc. H816
Beckley-Cardy B-6/Be
Colorado Fuel and Iron
Corporation, The H817
Cross Fence Co. H819
Cyclone Fence Department,
United States Steel H820
Game-Time, Inc. G727
Nissen Trampoline Co. G-2/Ni
Wayne Iron Works B216

**Playground Surfacing
(see Surfacing)****Plumbing**

Century Brass Works, Inc. C-3/Ce
Crane Co. C314, 315
Powers Regulator Co., The C-1/Po
Symmons Engineering Company ... C318
Taylor Co., The Halsey W. C319

Poles—Flag

Game-Time, Inc. G727

**Polish—Floor
(see Floor Finishes)****Pool Cleaning Equipment**

Spencer Turbine Company, The H810

Pools—Swimming

American Bridge G701

Posts—Fence (see Fencing)**Potentiometer**

Klett Manufacturing Co. F603

Pots—Cooking

Wear-Ever Aluminum, Inc. ... E514, 515

Precision Instruments

Brown & Sharpe Mfg. Co. ... F613, 614
Lufkin Rule Company, The F612
Millers Falls Company F616
Starrett Co., The L. S. F617

**Programming—Electronic
(see Computers)****Projectors—Lighting**

Kliegl Bros. D420, 421

Projectors—Motion Picture

Radio Corporation of America .. D-1/RCA

Projectors—Slide

Kliegl Bros. D420, 421

Projectors—Television

General Precision Equipment
Corporation D-1/GPL
Radio Corporation of America .. D-1/RCA
Sarkes Tarzian, Inc. D408, 409

**Public Address Systems
(see Sound Systems)****Pulls—Door (see Knobs)****Pump—Bottle, Lab**

Barnstead Still & Sterilizer Co. F601

Pumps

Brown & Sharpe Mfg. Co. F613, 614

Pumps—Heating

Nash Engineering Company, The .. C306

Racks (also see Stands)**Racks—Basket**

Lyon Metal Products,
Incorporated F630, 631

Racks—Bicycle

Game-Time, Inc. G727

**Racks—Book (see Chair
Accessories, Attachments)****Racks—Book, Magazine,
Newspaper**

Ames Company, W. R. B-6/Am
Brunswick-Balke-Collender Company,
The B-6/BBC
Educators Manufacturing Company D-5/Ed
Heywood-Wakefield D-4/He
Standard Wood Products
Corporation D-6/SI

**Racks—Clothing (also see
Wardrobes and Cabinets—
Wardrobe)**

American Seating D-4/AmS
Ames Company, W. R. B-6/Am
Borroughs Manufacturing Company D446
Educators Manufacturing Company D-5/Ed
Lyon Metal Products,
Incorporated F630, 631
Nelson Co., Inc., A. R. B-7/Ne
Vogel-Peterson Company B-7/Vo

Racks—Lumber Storage

Standard Pressed Steel Co. F-3/SPS
Tolerton Company, The F-3/To

Racks—Refrigerator

Market Forge Company E509

Racks—Sorting

Educators Manufacturing
Company D-5/Ed
Lyon Metal Products,
Incorporated F630, 631

Racks—Umbrella

Vogel-Peterson Company B-7/Vo

**Radar Training
(see Training Program)****Radios**

Newcomb Audio Products Co. D410, 411
Radio Corporation of America .. D-1/RCA

Railings

McGann Bronze Incorporated B228
Michaels Art Bronze Co., Inc., The .. B227

Railings—Chair

Inland Steel Products Company B218

Ranges—Cooking

Graybar Electric Company, Inc. C327
Hotpoint Co. E-2/He
Van Range Co., The John E513

Receptacles—Sanitary Napkin

Bennett Manufacturing Company .. H812

Receptacles—Waste, Indoor

Bennett Manufacturing Company .. H812
National Vulcanized Fibre Co. H814
United Metal Cabinet Corp. H813
Wood Company, John,
Superior Metalware Division H815

Receptacles—Waste, Outdoor

Bennett Manufacturing Company .. H812
United Metal Cabinet Corp. H813
Wood Company, John,
Superior Metalware Division H815

**Record Players
(see Transcription Players)****Record Systems**

Art Metal Construction Co. D-6/Ar
Globe-Wernicke Co., The D448, 449
Remington Rand D450, 451

Recorders—Data, Time

International Business Machines
Corporation C-7/IBM

Recorders—Kinescope

Dage Television Division D404, 405
Sarkes Tarzian, Inc. D408, 409

Recorders—Tape

Radio Corporation of America .. D-1/RCA

Records—Musical, Educational

Radio Corporation of America .. D-1/RCA

Refrigerators

Puffer-Hubbard Refrigerator Company E511
THERMOCOLD Corporation E-2/McC
Victory Metal Manufacturing Corp. . E516

Refrigerators—Pass Through

Puffer-Hubbard Refrigerator Company E511
THERMOCOLD Corporation E-2/McC
Victory Metal Manufacturing Corp. . E516

Regulators—Water Heating

Powers Regulator Co., The C-1/Po

Resistors—Non Metallic

Harrop Electric Furnace Division F610

**Rigging—Stage
(see Hardware—Stage)****Risers—Choral**

Haldeman-Homme Mfg. Co. E-1/Ha
Midwest Folding Products D436
Mitchell Manufacturing Co. ... D437-439
Wenger Music Equipment Company D-2/We
Winkler Mfg. Co., Inc. G-1/WI

Risers—Stair

Musson Rubber Co., The R. C. B207
Pennsylvania Slate Producers
Guild, Inc. B219

Roof Construction

Barrett Division, Allied Chemical
Corporation A105
Buffalo Products Co. B220
Douglas Fir Plywood Association . A-1/Do
Insulrock Company, Division of the
Flintkote Company A106, 107
Laclede Steel Company A102
Macomber Incorporated A103
Rilco Laminated Products, Inc. A104
Tectum Corporation A108
Timber Structures, Inc. A-1/TI
Truscon Steel Division, Republic
Steel A122, 123
West Coast Lumbermen's
Association A-1/We

Roofing—Asphalt for

American Bitumuls & Asphalt
Company H821

Roofing—Built-Up

Barrett Division, Allied Chemical
Corporation A105

Roofing—Repair, Maintenance

Barrett Division, Allied Chemical
Corporation A105

**Rules—Measuring
(see Tools—Measuring)**

Runners—Floor, Rubber

Melflex Products Company, Inc. B206
 Musson Rubber Co., The R. C. B207

**Saddles—Door
(see Thresholds)****Safes**

Cole Steel Equipment Co., Inc. .. D-7/Col
 Remington Rand D450, 451

Sanders

Atlas Press Company F618, 619
 Duro Metal Products Company F620
 Millers Falls Company F616
 Oliver Machinery Company F624

Saws—Shop

Atlas Press Company F618, 619
 Duro Metal Products Company F620
 Oliver Machinery Company F624
 Starrett Co., The L. S. F617

Saws—Meat

United Manufacturers E512

Scaffolds

Louisville Ladder Company H809

Scales—Food

United Manufacturers F512

Scenery—Stage

Grand Stage Lighting Co. D417
 Knoxville Scenic Studios Incorporated D424
 Novelty Scenic Studios, Inc. D-2/No
 Pittsburgh Stage, Inc. D426

Scoreboards

All-American Scoreboard Corporation G717
 Brown Company, M. D., The . G718, 719
 Fair-Play Mfg. Co. G720, 721
 Medart Products, Inc., Fred ... G705-707
 Naden Industries G722

**Scrap Baskets
(see Baskets—Waste)****Screens—Projection**

Da-Lite Screen Company D406
 Lightmaster Screen Co. D407

Screw Machines

Brown & Sharpe Mfg. Co. ... F613, 614

Screwdrivers

Greenlee Tool Co. F611
 Millers Falls Company F616

**Seals—Floor
(see Floor Finishes)****Seat Anchorage—Grandstand,
Gym**

Hohmann & Barnard of Alabama,
 Inc. G703

**Seating—Athletic Field,
Stadium**

American Bridge G701
 American Seating D-4/Am5
 Arrow Bleacher Company G702
 Hohmann & Barnard of Alabama,
 Inc. G703
 Hussey Mfg. Co., Inc. G704
 Pittsburgh-Des Moines Steel Company G708
 Playtime Equipment Corp. G709
 Scott Port-a-Fold, Inc. G710
 Snyder Tank Corporation G711
 Standard Steel and Supply Company G712
 Winkler Mfg. Co., Inc. G-1/Wi

**Seating—Auditorium, Chapel
(see Chairs)****Seating—Gym**

American Seating D-4/Am5
 Brunswick-Balke-Collender Company,
 The, Horn Division G-1/Ho
 Hussey Mfg. Co., Inc. G704
 Medart Products, Inc., Fred ... G705-707
 Safway Steel Products, Inc. G-1/Sa
 Snyder Tank Corporation G711
 Standard Steel and Supply Company G712
 Universal Bleacher Company G716
 Wayne Iron Works G713-715

Seats—Bleacher, Folding

Scott Port-a-Fold, Inc. G710

Seesaws

Game-Time, Inc. G727

Sewing Machines

Singer Sewing Machine Co. E520

Shade Cloth—Window

Columbus Coated Fabrics Corporation A126

Shades—Window

Beckley-Cardy B-6/Be

Shampoo—Rug, Upholstery

Multi-Clean Products, Inc. H-1/Mu

Shampooing Machines—Rug

Atlas Floor Surfacing Machinery
 Corp. H-1/At
 Clarke Sanding Machine Company . H803
 Hild Floor Machine Company H805
 Holt Manufacturing Co. H806
 Multi-Clean Products, Inc. H-1/Mu
 United Floor Machine Company, Inc. H811

**Shampooing Machines—
Upholstery**

Holt Manufacturing Co. H806
 Multi-Clean Products, Inc. H-1/Mu

Shapers

Atlas Press Company F618, 619
 Oliver Machinery Company F624
 Sheldon Machine Co., Inc. F-3/Sh
 South Bend Lathe Works F-3/Sa

Sheathing

Douglas Fir Plywood Association . A-1/Do
 Insulrock Company, Division of the
 Flintkote Company A106, 107
 West Coast Lumbermen's
 Association A-1/We

Shelving Accessories

Ames Company, W. R. B-6/Am
 Art Metal Construction Co. D-6/Ar
 Brunswick-Balke-Collender Company,
 The B-6/BBC
 Simmons Company E-4/Si

Shelving—Steel

All-Steel Equipment Inc. D-7/Al
 Ames Company, W. R. B-6/Am
 Art Metal Construction Co. D-6/Ar
 Borroughs Manufacturing Company . D446
 Brunswick-Balke-Collender Company,
 The D-4/BBC
 Cole Steel Equipment Co., Inc. .. D-7/Col
 Corry-Jamestown Mfg. Corporation D-7/Co
 General Fireproofing Company, The D-7/Ge
 Globe-Wernicke Co., The D448, 449
 Lyon Metal Products, Inc. F630, 631
 Tolerton Company, The F-3/To

Shelving—Wall Hung

Ames Company, W. R. B-6/Am
 Brunswick-Balke-Collender Company,
 The B-6/BBC
 Educators Manufacturing Company D-5/Ed
 Nelson Co., Inc., A. R. B-7/Ne
 Simmons Company E-4/Si
 Vogel-Peterson Company B-7/Vo

Shelving—Wood

Douglas Fir Plywood Association . A-1/Do
 Educators Manufacturing Company . D-5/Ed
 Mutschler Brothers Company E-3/Mu
 Standard Wood Products
 Corporation D-6/Si

Shower Fittings

Symmons Engineering Company ... C318

Shower Fittings—Thermostatic

Powers Regulator Co., The C-1/Po
 Symmons Engineering Company ... C318

Shower Stalls (see Partitions)**Shutters—Counter**

Cornell Iron Works, Inc. A112

**Shutters—Fire
(for Projection Rooms)**

Best Devices Company, Inc., The ... D414

Siding

Douglas Fir Plywood Association . A-1/Do
 West Coast Lumbermen's
 Association A-1/We

Signal Systems

Bogen Company, David D402, 403
 Graybar Electric Company, Inc. C327
 International Business Machines
 Corporation C-7/IBM
 Montgomery Manufacturing Company C328
 Radio Corporation of America .. D-1/RCA

Signs—Exit

Curtis Lighting Incorporated C-5/Cu

Signs—Metal (see Plaques)**Sills, Stools—Window**

Inland Steel Products Company B218
 Pennsylvania Slate Producers Guild,
 Inc. B219

Silverware

International Silver Company, The .. E501

Sinks—Classroom, Laboratory

Century Brass Works, Inc. C-3/Ce
 Kewaunee Mfg. Co. F-2/Ke
 Knight Co., Maurice A. F605
 Pennsylvania Slate Producers Guild,
 Inc. B219
 School Equipment Manufacturing
 Corporation D-5/Sc
 United States Stoneware Co., The .. F606

Sinks—Kitchen, Homemaking

Crane Co. C314, 315

**Sinks—Washroom
(see Lavatories)****Sirens (see Signal Systems)****Skylights (see Glass—
Roof Panels)****Slicing Machines—Food**

United Manufacturers E512

Slides—Playground

Game-Time, Inc. G727

**Snow Removal Equipment—
Power**

Gravelly Tractors, Incorporated H824
 Worthington Mower Company .. H-4/We

Sofas

Simmons Company E-4/Si

Sound Systems

Bogen Company, David D402, 403
 Califone Corporation D401
 Graybar Electric Company, Inc. C327
 Newcomb Audio Products Co. .. D410, 411
 Radio Corporation of America .. D-1/RCA
 Sound-Craft Systems D-4/So
 University Loudspeakers, Inc. D412

Speakers

Califone Corporation D401
 Radio Corporation of America .. D-1/RCA
 University Loudspeakers, Inc. D412

Spotlight Color Wheels

Best Devices Company, Inc., The ... D414
 Kliegl Bros. D420, 421

**Spotlights
(see Lighting—Spot)****Sprinkler Systems**

Grinnell Company C316

Stadiums

American Bridge G701

**Stage Hardware
(see Hardware)****Stage Lighting
(see Lighting—Stage)****Stages, Platforms—Folding**

Brunswick-Balke-Collender Company,
 The, Horn Division G-1/Ho
 Haldeman-Homme Mfg. Co. E-1/Ha
 Metwood Mfg. Co. D432, 433
 Midwest Folding Products D436
 Mitchell Manufacturing Co. ... D437-439
 Wenger Music Equipment Company D-2/We

Stages, Platforms—Portable

Barricks Manufacturing Company . D-3/Ba
 Brunswick-Balke-Collender Company,
 The, Horn Division G-1/Ho
 Haldeman-Homme Mfg. Co. E-1/Ha
 Metwood Mfg. Co. D432, 433
 Midwest Folding Products D436
 Mitchell Manufacturing Co. ... D437-439
 Wenger Music Equipment Company D-2/We

Stair Treads (see Treads)**Stalls—Shower (see Partitions)****Stanchions**

Novelty Scenic Studios, Inc. D-2/No

Stands (also see Racks)**Stands—Bands, Choral**

Barricks Manufacturing Company . D-3/Ba
 Brunswick-Balke-Collender Company,
 The, Horn Division G-1/Ho
 Haldeman-Homme Mfg. Co. E-1/Ha
 Midwest Folding Products D436
 Mitchell Manufacturing Co. ... D437-439
 Wenger Music Equipment Company D-2/We
 Winkler Mfg. Co., Inc. G-1/Wi

Stands—Bedside

Superior Sleeprite Corp. E518, 519

Stands—Filing

Art Metal Construction Co. D-6/Ar

Stands—Music

Kliegl Bros. D420, 421
 Wenger Music Equipment Company D-2/We

**Stands—Office Machine,
Typewriter**

Cole Steel Equipment Co., Inc. .. D-7/Col

Stands—Sousaphone

Wenger Music Equipment Company D-2/We

**Stands—Speaker
(see Lecterns)**

Stands—Step

Mutschler Brothers Company E-3/Mu
Standard Wood Products
Corporation D-6/St

Stands—Telephone

Cole Steel Equipment Co., Inc. . . D-7/Col
Corry-Jamestown Mfg. Corporation D-7/Co
General Fireproofing Company, The D-7/Ge

Stencils

Remington Rand D450, 451

Sterilizers—Lab

Barnstead Still & Sterilizer Co. F601

Stills—Water

Barnstead Still & Sterilizer Co. F601

Stock Pickers

Rol-Away Truck Mfg. Co., Inc. D434, 435

Stools

All-Steel Equipment Inc. D-7/Al
Chicago Hardware Foundry Company,
The E-1/Ch
Cole Steel Equipment Co., Inc. . . D-7/Col
General Fireproofing Company, The D-7/Ge
Krueger Metal Products Company . D-3/Kr
Lyon Metal Products, Inc. F630, 631
Standard Pressed Steel Co. F-3/SPS
Standard Wood Products
Corporation D-6/St
Tolerton Company, The F-3/To

**Stools—Window
(see Sills, Stools)****Stop Watches**

Ducommun Company, M. G723

Stops—Door (see Bumpers)**Sumps—Laboratory**

Knight Co., Maurice A. F605

Surfacers

Oliver Machinery Company F624

**Surfacing—Counter, Cabinet,
Desk, etc.**

Coppes, Inc. E-3/Co
Douglas Fir Plywood Association . A-1/Do
General Electric Company, Textolite D-4/GE
Gold Seal, Congoleum-Nairn Inc. . . B201
Johns-Manville F602
Kewaunee Mfg. Co. F-2/Ke

Pennsylvania Slate Producers Guild,
Inc. B219
Tolerton Company, The F-3/To

Surfacing—Pavements, Walks

Pennsylvania Slate Producers Guild,
Inc. B219

**Surfacing—Playground,
Tennis Court**

American Bitumuls & Asphalt
Company H821

Sweepers—Power

Gravely Tractors, Incorporated H824

Swings—Playground

Game-Time, Inc. G727

Switchboards—Lighting

Adam Electric Company, Frank . . D-2/Ad
Century Lighting, Inc. D418, 419
Kliegl Bros. D420, 421

Switches—Lighting

Davis Manufacturing Company,
Ariel D-2/Da

**T Squares (see Tools—
Measuring)****Table, Bench Combination**

Clapper's Manufacturing D429
Haldeman-Homme Mfg. Co. E-1/Ha
Howe Folding Furniture, Inc. D431
Rol-Fol Table Inc. E-1/Ro
Schieber Sales Company E-1/Sc
Sico Manufacturing Company, Inc. . . E503

Table Legs

Westfield Manufacturing Company D-4/Col

**Table Tops—Laboratory
(see Surfacing)****Tables—Cafeteria**

American Desk Manufacturing
Co. D-4/AmD
American Seating D-4/AmS
Barricks Manufacturing Company . D-3/Ba
Brewer-Titchener Corporation, The . . D428
Brunswick-Balke-Collender Company,
The D-4/BBC
Chicago Hardware Foundry Company,
The E-1/Ch
Clapper's Manufacturing D429
General Fireproofing Company, The D-7/Ge
Haldeman-Homme Mfg. Co. E-1/Ha
Heywood-Wakefield D-4/He

Howe Folding Furniture, Inc. D431
Institutional Sales & Mfg. D-3/In
Krueger Metal Products Company . D-3/Kr
Merwood Mfg. Co. D432, 433
Midwest Folding Products D436
Mitchell Manufacturing Co. D437-439
Mutschler Brothers Company E-3/Mu
National School Furniture Company . E510
Rol-Fol Table Inc. E-1/Ro
Schieber Sales Company E-1/Sc
Shwayder Brothers, Incorporated . D-4/Sh
Sico Manufacturing Company, Inc. . . E503

**Tables—Carrel Type
(see Carrels—Study)****Tables—Conference, Library,
Study**

All-Steel Equipment Inc. D-7/Al
American Desk Manufacturing
Co. D-4/AmD
American Seating D-4/AmS
Barricks Manufacturing Company . D-3/Ba
Beckley-Cardy B-6/Be
Brunswick-Balke-Collender
Company, The D-4/BBC
Chicago Hardware Foundry
Company, The E-1/Ch
Clapper's Manufacturing D429
Cole Steel Equipment Co., Inc. . . D-7/Col
Corry-Jamestown Mfg.
Corporation D-7/Co
Fleetwood Furniture Company D-5/FI
General Fireproofing Company,
The D-7/Ge
Globe-Wernicke Co., The D448, 449
Griggs Equipment, Inc. D441
Heywood-Wakefield D-4/He
Mutschler Brothers Company E-3/Mu
National School Furniture
Company E510
Remington Rand D450, 451
Shwayder Brothers, Incorporated . D-4/Sh
Standard Wood Products
Corporation D-6/St
Tolerton Company, The F-3/To
Westmoreland Metal Manufacturing
Corp. D-4/We

Tables—Drawing

General Fireproofing Company, The D-7/Ge
Lyon Metal Products,
Incorporated F630, 631
Mutschler Brothers Company E-3/Mu
Stacor Equipment Company F625
Standard Pressed Steel Co. F-3/SPS
Tolerton Company, The F-3/To
Westmoreland Metal Manufacturing
Corp. D-4/We

Tables—Folding

American Seating D-4/AmS
Barricks Manufacturing
Company D-3/Ba
Brewer-Titchener Corporation,
The D428
Clapper's Manufacturing D429
Haldeman-Homme Mfg. Co. E-1/Ha
Howe Folding Furniture, Inc. D431
Institutional Sales & Mfg. D-3/In
Krueger Metal Products Company . D-3/Kr
Merwood Mfg. Co. D432, 433
Midwest Folding Products D436
Mitchell Manufacturing Co. D437-439
Mutschler Brothers Company E-3/Mu
National School Furniture
Company E510

Rol-Fol Table Inc. E-1/Ro
 Schieber Sales Company E-1/Sc
 Sico Manufacturing Company, Inc. .. E503

Tables—Folding, Wall Storage

Haldeman-Homme Mfg. Co. E-1/Ha
 Mitchell Manufacturing Co. ... D437-439
 Rol-Fol Table Inc. E-1/Ro
 Schieber Sales Company E-1/Sc
 Sico Manufacturing Company, Inc. .. E503

Tables—Laboratory

Duralab Equipment Corp. F604
 Kewaunee Mfg. Co. F-2/Ke
 Laboratory Furniture Company, Inc. . F607
 Metalab Equipment Company ... F-2/Me
 Tolerton Company, The F-3/To

Tables—Library, Special

Standard Wood Products
 Corporation D-6/SI

Tables—Shop

Berroughs Manufacturing Company . D446
 Stacor Equipment Company F625
 Standard Pressed Steel Co. F-3/SPS
 Tolerton Company, The F-3/To

Tables—Slope Top

Standard Wood Products
 Corporation D-6/SI

Tables—Tennis

Metwood Mfg. Co. D432, 433
 Sico Manufacturing Company, Inc. . G728

Tablets—Bronze, Metal

Lake Shore Markers, Inc. B225
 McGann Bronze Incorporated B228
 Meierjohan-Wengler B226
 Michaels Art Bronze Co., Inc., The .. B227

Tableware—Plastic

Beenton Molding Co. E-1/Be
 Keyes Fibre Company E504

Tackboard

Beckley-Cardy B-6/Be
 Brunswick-Balke-Collender
 Company, The B-6/BBC
 Claridge Products and Equipment
 Incorporated B217

Tanks—Laboratory

Douglas Fir Plywood Association . A-1/Do
 Kewaunee Mfg. Co. F-2/Ke
 Knight Co., Maurice A. F605

Tape—Electrical

Graybar Electric Company, Inc. C327

Tapes—Measuring (see Tools—Measuring)

Teaching Aids

Atlas Press Company F618, 619
 Beckley-Cardy B-6/Be
 Cincinnati Milling Machine Co., The F-3/CI
 Lufkin Rule Company, The F612
 Philco Corporation F-1/Ph
 Sheldon Machine Co., Inc. F-3/Sh
 South Bend Lathe Works F-3/So
 Starrett Co., The L. S. F617

Telephone Systems (see Intercommunication Systems)

Television—Closed Circuit

Dage Television Division D404, 405
 General Precision Equipment
 Corporation D-1/GPL
 Graybar Electric Company, Inc. C327
 Radio Corporation of America .. D-1/RCA
 Sarkes Tarzian, Inc. D408, 409

Television Receivers

Radio Corporation of America .. D-1/RCA

Tenderizing Machines—Food

United Manufacturers E512

Tennis Court Enclosures (see Enclosures—Tennis Court)

Tennis Court Surfacing (see Surfacing)

Tennis Nets (see Nets—Tennis)

Tenoner

Oliver Machinery Company F624

Terrariums

Kewaunee Mfg. Co. F-2/Ke

Therapy Equipment (see Training Equipment— Physical)

Thermostats

Powers Regulator Co., The C-1/Po

Thresholds

Accurate Metal Weather Strip
 Co., Inc. A109
 American Mason Safety Tread Co. .. B205
 Wooster Products Inc. B208

Tile—Floor, Asphalt

Azrock Floor Products Division ... B-1/Az
 Gold Seal, Congoleum-Nairn Inc. .. B201

Tile—Floor, Ceramic

Natco Corporation B209

Tile—Floor, Cork

Gold Seal, Congoleum-Nairn Inc. .. B201

Tile—Floor, Rubber

Gold Seal, Congoleum-Nairn Inc. .. B201

Tile—Floor, Vinyl, Plastic

Azrock Floor Products Division ... B-1/Az
 Gold Seal, Congoleum-Nairn Inc. .. B201

Tile—Structural

Natco Corporation B209

Tile—Wall, Ceramic

Monarch Tile Manufacturing,
 Inc. B210, 211
 Natco Corporation B209

Tile—Wall, Plastic

Gold Seal, Congoleum-Nairn Inc. .. B201

Time Systems (see Signal Sys- tems and Clocks—Program)

Timing Instruments (see Watches—Stop and Scoreboards)

Toilet Compartments (see Partitions—Toilet)

Tool Accessories, Attachments

Brown & Sharpe Mfg. Co. F613, 614
 Cincinnati Milling Machine Co.,
 The F-3/CI
 Greenlee Tool Co. F611
 Millers Falls Company F616
 Sheldon Machine Co., Inc. F-3/Sh
 South Bend Lathe Works F-3/So

Tool Sets (see Tools—Hand)**Tools—Boring**

Greenlee Tool Co. F611

Tools—Hand

Brown & Sharpe Mfg. Co. F613, 614
 Greenlee Tool Co. F611
 Millers Falls Company F616
 Starrett Co., The L. S. F617

Tools—Machine

Atlas Press Company F618, 619
 Brown & Sharpe Mfg. Co. F613, 614
 Cincinnati Lathe and Tool Co. F622, 623
 Cincinnati Milling Machine Co.
 The F-3/Ci
 Duro Metal Products Company F620
 LeBlond Machine Tool Company,
 The R. K. F621
 Logan Engineering Co. F615
 Oliver Machinery Company F624
 Sheldon Machine Co., Inc. F-3/Sh
 South Bend Lathe Works F-3/So
 U. S. Burke Machine Tool Div. F626

Tools—Measuring

Brown & Sharpe Mfg. Co. F613, 614
 Lufkin Rule Company, The F612
 Millers Falls Company F616
 Starrett Co., The L. S. F617

Tools—Turning

Greenlee Tool Co. F611

Top Lighting

(see Glass-Roof Panels)

Tops for Counters, etc.

(see Surfacing)

Tote Trays

Fabri-Form Company, The D444
 Molded Fiber Glass Tray Company . E517

Tracks—Curtain, Stage

(see Hardware—Stage)

Tracks—Curtain, Window

Automatic Devices Company D413
 Knoxville Scenic Studios Incorporated D424
 Novelty Scenic Studios, Inc. D-2/No
 Vallen Inc. D427

**Tractor Accessories,
Attachments**

Gravely Tractors, Incorporated H824
 Worthington Mower Company .. H-4/Wo

Tractors

Gravely Tractors, Incorporated H824
 Worthington Mower Company .. H-4/Wo

Training Equipment—Driving

Drivetrainer Division,
 Automatic Voting Machine
 Corporation D-1/Au

Training Equipment—Physical

American Trampoline Co., The 877
 Beckley-Cardy B-6/Be
 Medart Products, Inc., Fred ... G705-707
 Nissen Trampoline Co. G-2/Ni

**Training Program—Electronic,
Radar**

Philco Corporation F-1/Ph

Trampolines

American Trampoline Co., The 877
 Game-Time, Inc. G727
 Nissen Trampoline Co. G-2/Ni

Transcription Players

Bogen Company, David D402, 403
 Califone Corporation D401
 Newcomb Audio Products Co. . D410, 411
 Radio Corporation of America .. D-1/RCA

Transformers

Graybar Electric Company, Inc. C327

Transportation (see Buses)**Trays—Classroom Storage**

Fabri-Form Company, The D444
 Molded Fiber Glass Tray Company . E517

Trays—Dish, Food Serving

Keyes Fibre Company E504
 Molded Fiber Glass Tray Company . E517
 Wear-Ever Aluminum, Inc. ... E514, 515

Trays—Letter

All-Steel Equipment Inc. D-7/Al

Treads—Stair

Natco Corporation B209
 Pennsylvania Slate Producers
 Guild, Inc. B219

**Treads—Stair, Safety
(for Stairways, Platforms,
Ramps)**

American Abrasive Metals Co. . B202,203
 American Mason Safety Tread Co. . B205
 Melflex Products Company, Inc. ... B206
 Mussen Rubber Co., The R. C. B207
 Wooster Products Inc. B208

**Trim—Chalkboard, Tackboard,
Pegboard (see Mountings)****Trim—Window**

Inland Steel Products Company B218
 Trussbilt, Division of Siems Bros.,
 Inc. A110, 111

Trimmers—Wood

Oliver Machinery Company F624

Troffers

Curtis Lighting Incorporated C-5/Cu

**Troughs—Chalkboard
(see Mountings)****Trucks—Book**

Ames Company, W. R. B-6/Am
 Art Metal Construction Co. D-6/Ar
 Educators Manufacturing Company D-5/Ed
 Lyon Metal Products,
 Incorporated F630, 631
 Mutschler Brothers Company ... E-3/Mu
 Rol-Away Truck Mfg. Co., Inc. D434, 435
 School Equipment Manufacturing
 Corporation D-5/Sc
 Standard Wood Products
 Corporation D-6/St
 Tolerton Company, The F-3/To

Trucks—Chair, Table

American Seating D-4/AmS
 Barricks Manufacturing Company . D-3/Ba
 Brewer-Titchener Corporation, The . D428
 Clapper's Manufacturing D429
 Institutional Sales & Mfg. D-3/In
 Krueger Metal Products Company . D-3/Kr
 Melwood Mfg. Co. D432, 433
 Midwest Folding Products D436
 Mitchell Manufacturing Co. ... D437-439
 Rol-Away Truck Mfg. Co., Inc. D434, 435

Trucks—Food Service

Food Warming Equipment Co., Inc. . E502
 Victory Metal Manufacturing Corp. . E516

Trucks—Toy, Clay

Fleetwood Furniture Company ... D-5/Fi
 Mutschler Brothers Company ... E-3/Mu
 School Equipment Manufacturing
 Corporation D-5/Sc

**Trusses—Roof
(see Building Construction)**

Tubes—Electron

Radio Corporation of America .. D-1/RCA

Tubing—Plastic, Laboratory

United States Stoneware Co., The .. F606

Typewriter Ribbon

Remington Rand D450, 451

Typewriters—ElectricInternational Business Machines Corporation C-7/IBM
Remington Rand D450, 451**Typewriters—Manual**

Remington Rand D450, 451

Typewriters—Portable

Cole Steel Equipment Co., Inc. .. D-7/Col

Unit Heating and VentilatingElectromode, Division of Commercial Controls Corporation C301
Lennox Industries C304, 305
Nelson, Herman C-1/Nel
Nesbitt, Inc., John J. C-1/Nes
Norman Products Co. C-1/No
Powers Regulator Co., The C-1/Po
Rittling Corporation, The C307
Vulcan Radiator Company, The .. C-1/Vu**Urinal Screens (see Partitions)****Urinals**

Crane Co. C314, 315

Vacuum Cleaning Systems

Spencer Turbine Company, The H810

Vacuum Cleaners—Boiler, FurnaceAtlas Floor Surfacing Machinery Corp. H-1/At
Breuer Electric Manufacturing Co. .. H801
Clarke Sanding Machine Company . H803
Kent Company, Inc., The H807
Multi-Clean Products, Inc. H-1/Mu
Spencer Turbine Company, The H810
United Floor Machine Company, Inc. H811**Vacuum Cleaners—Dry, Wet**Atlas Floor Surfacing Machinery Corp. H-1/At
Breuer Electric Manufacturing Co. .. H801
Cassidy Products, Inc. H802
Clarke Sanding Machine Company . H803
General Floorcraft, Inc. H804
Hild Floor Machine Company H805
Holt Manufacturing Co. H806
Kent Company, Inc., The H807
Multi-Clean Products, Inc. H-1/Mu
Spencer Turbine Company, The H810
United Floor Machine Company, Inc. H811**Valves—Heat Control**

Powers Regulator Co., The C-1/Po

Valves—Thermostatic ShowerPowers Regulator Co., The C-1/Po
Symmons Engineering Company ... C318**Varnish Remover (see Wax Remover)****Venetian Blinds (see Blinds)****Ventilating and Heating Units (see Unit Heating and Ventilating)****Ventilators**

Swartwout Company, The C310

VisesBrown & Sharpe Mfg. Co. F613, 614
Tolerton Company, The F-3/To**Volley Ball Posts**

Game-Time, Inc. G727

Voltmeters

Graybar Electric Company, Inc. C327

Voltohmyst

Radio Corporation of America .. D-1/RCA

Wainscoting

Douglas Fir Plywood Association . A-1/Do

Wainscoting—Cushioned

Medart Products, Inc., Fred ... G705-707

Walks (see Surfacing)**Wall Bases (see Bases—Wall)****Wall Covering—Canvas, Vinyl**Columbus Coated Fabrics Corporation A126
Knoxville Scenic Studios Incorporated D424**Walls—Wood**Douglas Fir Plywood Association . A-1/Do
West Coast Lumbermen's Association A-1/We**Wardrobes (also see Racks—Clothing and Cabinets—Wardrobes)**All-Steel Equipment Inc. D-7/Al
Brunswick-Balke-Collender Company, The D-4/BBC
Brunswick-Balke-Collender Company, The, Horn Division .. G-1/Ho
Educators Manufacturing Company D-5/Ed
Nelson Co., Inc., A. R. B-7/Ne
School Equipment Manufacturing Corporation D-5/Sc
Simmons Company E-4/Si
Vogel-Peterson Company B-7/Vo**Washroom Equipment**American Dryer Corp. C320
Chicago Hardware Foundry Company, The C321**Waste Disposals (see Incinerators)****Waste Receptacles (see Receptacles—Waste)****Watches—Stop**

Ducommun Company, M. G723

Water Closets

Crane Co. C314, 315

Water Coolers (see Coolers)**Waterproofing**Hom Corporation, A. C. A-3/He
Standard Dry Wall Products, Inc. . A-3/Si**Wax and Varnish Remover**Huntington Laboratories Incorporated H-1/Hu
Legge Company, Inc., Walter G. ... H808
Multi-Clean Products, Inc. H-1/Mu**Wax—Floor (see Floor Finishes)****Weatherstripping**

Accurate Metal Weather Strip Co., Inc. A109

Window Darkening—Shades, BlindsColonial Plastics Company D416
Columbus Coated Fabrics Corporation A126
Eastern Products Corporation A-6/Ea
Levalor Lorentzen, Inc. A-6/Le

Window Trim (see Trim—Window)**Window Walls (see Curtain Walls)****Windows—Aluminum, Awning, Hopper Vent**

Carr, Adams & Collier Company . A-5/Ca
 Marmet Corporation A118
 Truscon Steel Division,
 Republic Steel A122, 123
 Valley Metal Products Company ... A125

Windows—Aluminum, Casement

Carr, Adams & Collier Company . A-5/Ca
 Truscon Steel Division,
 Republic Steel A122, 123
 Valley Metal Products Company ... A125

Windows—Aluminum, Double Hung

Adams & Westlake Company,
 The A114, 115
 Carr, Adams & Collier Company . A-5/Ca

Windows—Aluminum, for Glass Block

Marmet Corporation A118
 Valley Metal Products Company ... A125

Windows—Aluminum, Horizontal Sliding

Peterson Window Corporation A124

Windows—Aluminum, Projected

Adams & Westlake Company,
 The A114, 115
 Bayley Company, The William A113
 Marmet Corporation A118
 Peterson Window Corporation A124
 Truscon Steel Division,
 Republic Steel A122, 123
 Valley Metal Products Company ... A125

Windows—Aluminum, Reversible

Adams & Westlake Company,
 The A114, 115
 Michaels Art Bronze Co., Inc., The .. B227

Windows—Custom Made

Marmet Corporation A118
 Valley Metal Products Company ... A125

Windows—Steel, Casement

Truscon Steel Division,
 Republic Steel A122, 123

Windows—Steel, Double Hung

Truscon Steel Division,
 Republic Steel A122, 123

Windows—Steel, Projected

Bayley Company, The William A113

Wire—Barbed (see Fencing)**Wire—Electrical**

Graybar Electric Company, Inc. C327

Wire Fabric

Truscon Steel Division,
 Republic Steel A122, 123

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Detroit University.....	Detroit, Michigan
Evansville College.....	Evansville, Indiana
Heidelberg College.....	Tiffin, Ohio
Hollins College.....	Hollins College, Virginia
Indiana Central College.....	Indianapolis, Indiana
Indiana Technical College.....	Fort Wayne, Indiana
Jamestown College.....	Jamestown, North Dakota
John Carroll University.....	Cleveland, Ohio
Johns Hopkins University.....	Baltimore, Maryland
Lewis and Clark College.....	Portland, Oregon
Loyola College.....	Baltimore, Maryland
Loyola University.....	Chicago, Illinois
Oregon State College.....	Corvallis, Oregon
Pacific Lutheran College.....	Tacoma, Washington
St. Joseph's College.....	Rensselaer, Indiana
St. Michael's College.....	Winooski Park, Vermont
Seton Hill College.....	Greensburg, Pennsylvania
South Dakota State College.....	Brookings, South Dakota
Tulane University.....	New Orleans, Louisiana
University of Miami.....	Coral Gables, Florida
University of Notre Dame.....	South Bend, Indiana
University of Oregon.....	Eugene, Oregon
University of Vermont.....	Burlington, Vermont
Vanderbilt University.....	Nashville, Tennessee
Villanova University.....	Villanova, Pennsylvania
Washburn College.....	Topeka, Kansas
Williams College.....	Williamstown, Massachusetts
Jesuit Seminary.....	Detroit, Michigan

Church operated and Secondary Schools

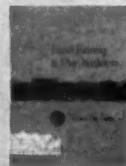
Howe Military School.....	Howe, Indiana
McGehee School.....	New Orleans, Louisiana
Orchard School.....	Indianapolis, Indiana
Gilman School.....	Baltimore, Maryland
Culver Military Academy.....	Culver, Indiana
St. Mary's School.....	Nauvoo, Illinois
Mt. de Chantal Academy.....	Wheeling, West Virginia
Tudor Hall.....	Indianapolis, Indiana

Write for your copy of "Fund-Raising is Our Business" which describes in detail all of American City Bureau's services.

American City Bureau
(ESTABLISHED 1913)

3520 Prudential Plaza, Chicago 1, Ill.
470 Fourth Avenue, New York 16, N. Y.

FOUNDING MEMBER AMERICAN ASSOCIATION OF FUND-RAISING COUNSEL



A STRUCTURAL MATERIALS

1. Building Members, Wood, Metal, Masonry

Douglas Fir Plywood Association	A-1/Do
Timber Structures, Inc.	A-1/Ti
West Coast Lumbermen's Association	A-1/We
The Erie Enameling Company	A 101
Laclede Steel Company	A 102
Macomber, Incorporated	A 103
Rilco Laminated Products, Inc.	A 104

2. Roofing

Barrett Division, Allied Chemical Corporation	A 105
Insulrock Company, Division of The Flintkote Company	A 106, 107
Tectum Corporation	A 108

3. Waterproofing & Weatherstripping

A. C. Horn Corporation, Contracting Division	A-3/Ho
Standard Dry Wall Products, Inc.	A-3/St
Accurate Metal Weather Strip Co., Inc.	A 109

4. Doors

Cornell Iron Works, Inc.	A 112
Trussbilt, Division of Siems Bros., Inc.	A 110, 111

5. Fenestration, Including Translucent Panels

Alsynite Co. of America	A-5/Al
American Window Glass Company	A-5/AmW
Carr, Adams & Collier Company	A-5/Ca
Libbey-Owens-Ford Glass Company	A-5/LOF
Mississippi Glass Company	A-5/Mi
The Adams & Westlake Company	A 114, 115
The William Bayley Company	A 113
Kimble Glass Company, Subsidiary of Owens-Illinois	A 116, 117
Marmet Corporation	A 118
Peterson Window Corporation	A 124
Pittsburgh Corning Corporation	A 119
Pittsburgh Plate Glass Company	A 120, 121
Truscon Steel Division, Republic Steel	A 122, 123
Valley Metal Products Company, Sub. of Mueller Brass Co.	A 125

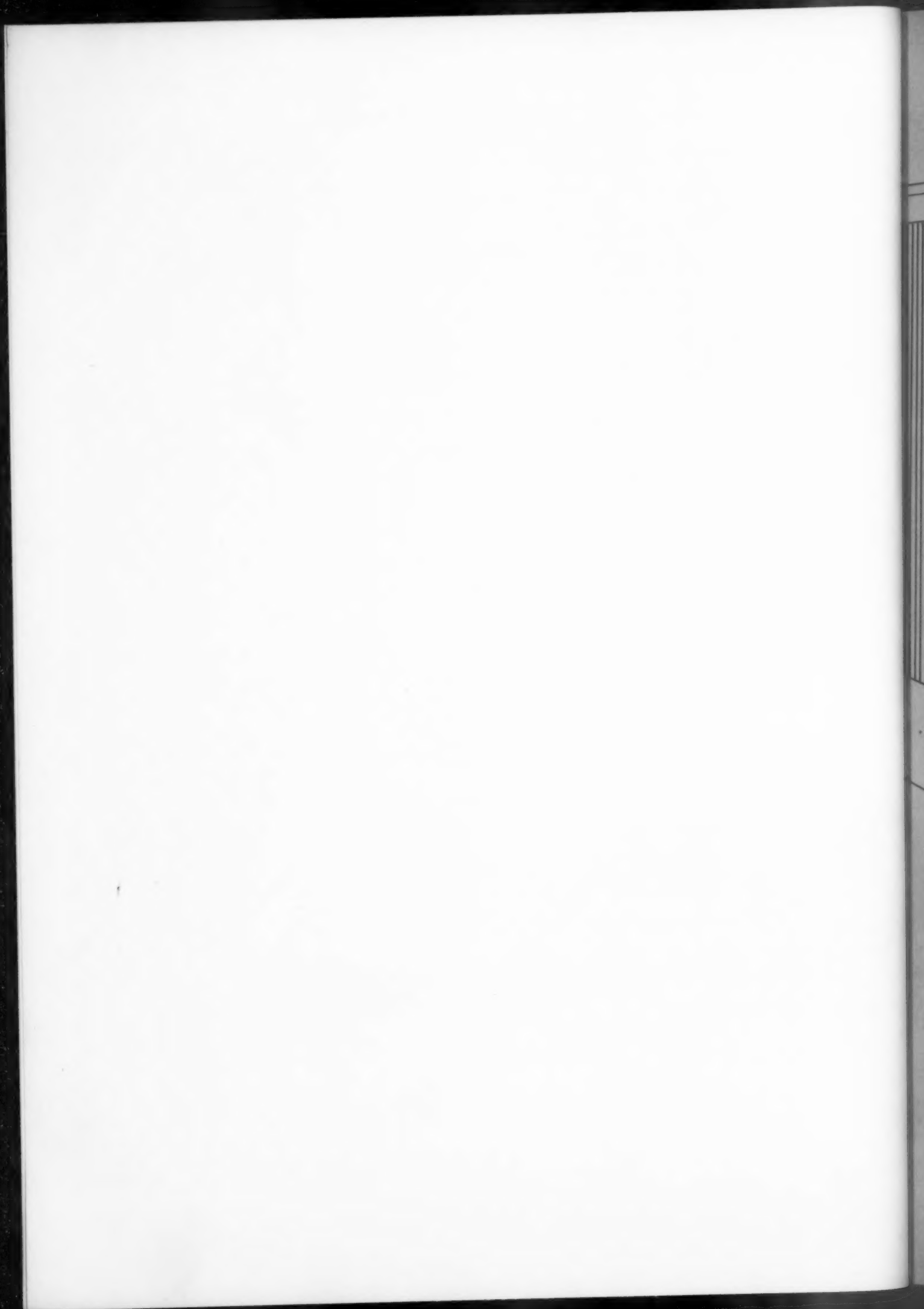
6. Window Shades & Venetian Blinds

Eastern Products Corporation	A-6/Ea
Levolor Lorentzen, Inc.	A-6/Le
Columbus Coated Fabrics Corporation	A 126

Fund Raising Counsel

American City Bureau	29-32
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Note: Manufacturers represented with complete catalogs are listed in bold face.



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**Under-
layment**
(Page 3)

**Sub-
flooring**
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**Concrete
Forms**
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HERE'S WHERE TO SPECIFY

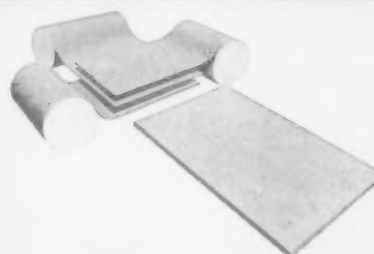


FIR PLYWOOD IN SCHOOLS

—for quality construction at lower cost

Prepared by DOUGLAS FIR PLYWOOD ASSOCIATION, Tacoma 2, Washington

A.I.A. File No. 19-F



Fir Plywood is real wood, peeled into precise veneers, then cross-laminated and bonded into big, strong, rigid panels — engineered to do a better building job at lower in-place costs.

advantages

DOUGLAS FIR PLYWOOD is real wood at its best. The advantages listed are *created* advantages, *engineered* into the material during manufacture to make it more versatile, more adaptable, more useful than wood in any other form.

Large size. Fir plywood is available in large sizes which simplify construction, make time and labor savings possible. About 75% of all fir plywood is in 4' x 8' panels; other sizes—smaller and larger—are produced.

Light weight. It weighs far less than most materials of equivalent strength. For example, a $\frac{3}{8}$ " panel weighs about 1 lb. per sq. ft.

Great strength and rigidity. Wood has great strength along the grain. By placing longitudinal grain in *both* directions, plywood capitalizes upon wood's great along-the-grain strength. Combined with large panel size, this makes plywood ideal for uses where structural strength and rigidity are important—especially in applications where plywood functions as a structural diaphragm, bracing, or where plate-action with edges supported is involved.

Splitproof, puncture-resistant. Because of its cross-laminated construction, plywood has no plane of cleavage perpendicular to the panel. Plywood also offers far greater resistance to suddenly applied loads distributed over a small area than hardboard or composition materials, or ordinary lumber of equal thickness.

Natural beauty. The natural beauty of real wood makes plywood ideal for application where pleasing modern appearance is important. It can be given a wide variety of surface treatments to capitalize on its soft, smooth, even-textured grain. Large size means big areas can be covered without detracting lines and joints.

Low cost. An economical material to begin with, fir plywood further reduces costs because it permits speedy fabrication. Exact size panels mean less waste.



Roof decking of $\frac{3}{4}$ " fir plywood helped save \$3,300 on this one-story reinforced concrete school. A total of 27,000 sq. ft. of plywood was required for the job.



Stressed skin panels of fir plywood used in construction of sheltered walkways which connect school buildings. More than 14,000 sq. ft. of plywood were used; underside of the sections is overlaid fir plywood, to provide the finest paint base.

STRENGTH AND RIGIDITY OF FRAME WALLS WITH OPENINGS
[From U. S. Forest Products Laboratory Tests]

SHEATHING MATERIAL	RELATIVE RIGIDITY	RELATIVE STRENGTH
1x8" DIAGONAL SHEATHING	1.0	1.3
29/32" FIBERBOARD	1.6	2.1
HORIZONTAL SHEATHING WITH 1x4" LET-IN BRACES	1.5	2.2
$\frac{1}{4}$ " PLYWOOD NAILED	2.0	2.8
$\frac{1}{4}$ " PLYWOOD GLUED TO FRAME	3.7	4.0

RIGIDITY*. Strength and rigidity of fir plywood, compared to other materials, shown by tests made at U. S. Forest Products Laboratory. Plywood wall and roof diaphragms contribute strength and rigidity to large buildings or buildings with large openings.

NAIL BEARING. Nail bearing is the vital property on which effectiveness of most diaphragms depends. Fir plywood possesses this strength property to a high degree—important in safe school construction.

ALLOWABLE SHEAR FOR WIND ON BLOCKED DOUGLAS FIR PLYWOOD DIAPHRAGMS*
[Pounds per Foot]

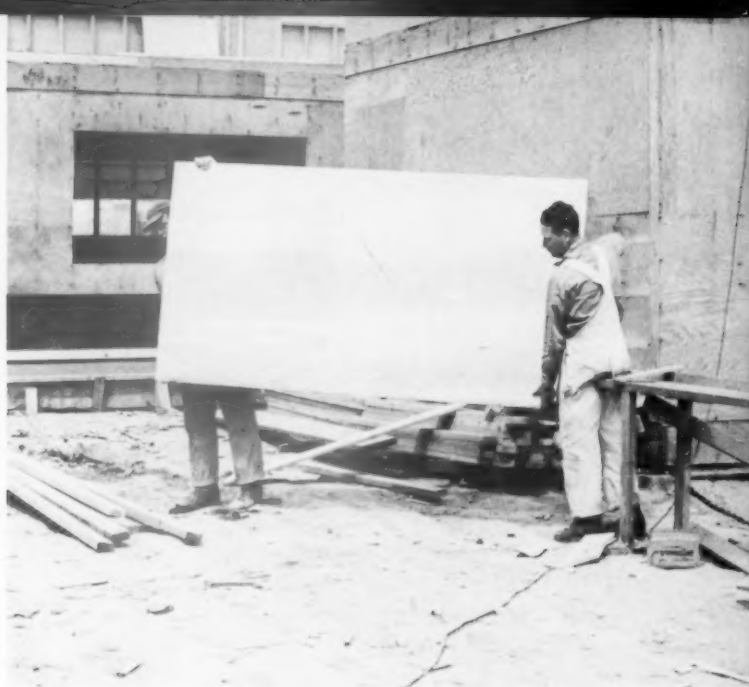
NAIL SPACING ON ALL PLYWOOD PANEL EDGES

Minimum Plywood Thickness	Common Nail Size	For Framing Member 2 $\frac{1}{2}$ " or More in Width			For Framing Member Less than 2 $\frac{1}{2}$ " but Not Less than 1 $\frac{1}{2}$ " in Width		
		6"	4"	3"	6"	4"	3"
5/16"	6d	280	420	475	250	375	420
$\frac{3}{8}$ "	8d	400	600	675	360	530	600
$\frac{1}{2}$ "	10d	480	720	820	425	640	730

*Detailed design data on diaphragms available from Douglas Fir Plywood Assn. NOTE: For Douglas Fir and Southern Pine Framing. [For other species adjust values accordingly.]



PlyScord subfloors cut application time in half, add strength and rigidity. New 2.4.1 combination subfloor-underlayment panel saves still more by doing two jobs with single material.



Superior rigidity and strength, insulation value, quick and economical application are some of the advantages which make fir plywood an outstanding material for sheathing walls.

Fir Plywood . . . Preferred for STRUCTURAL USES

Roof Decking—Advantages

- Diaphragm action resists windstorm, earthquake; adds rigidity and strength.
- Big 4' x 8' panels cover 32 feet of roof area; save 25% in time and labor.
- Panels are stable, resist shrinkage or swelling. Superior for roofing which would be damaged by buckling.
- Affords solid sheathing surface.
- Excellent nail holding; roofing stays down.

Wall Sheathing—Advantages

- Saves more than 25% in time and labor.
- Strong, rigid. In fact, more than twice as strong, twice as rigid. See chart lower left.
- Saves by eliminating need for corner bracing.
- Big panels cover large areas quickly.
- Panels are exact size, dimensionally stable.
- There is a minimum of cutting; no waste of materials.
- Walls are draft-free. Real wood panels add insulation.

Subflooring—Advantages

- Saves up to 50% in labor; finish floor goes down easier.
- Provides smooth, dry, level working platform.
- Fewer nails required; holds nails firmly.
- Subfloor is tighter, warmer; plywood protects against drafts, adds insulation.
- Strength and rigidity resist wind, earthquake; assure solid, cup-free, squeak-free base.

Underlayment - Backing—Advantages

- Smooth, rigid, minimum of joints.
- Coverings last longer, look better; no humps or ridges.
- Large, light, exact-size panels save labor.
- Easy to cut, fit, nail.
- Splitproof, shatter-proof, easy to handle.



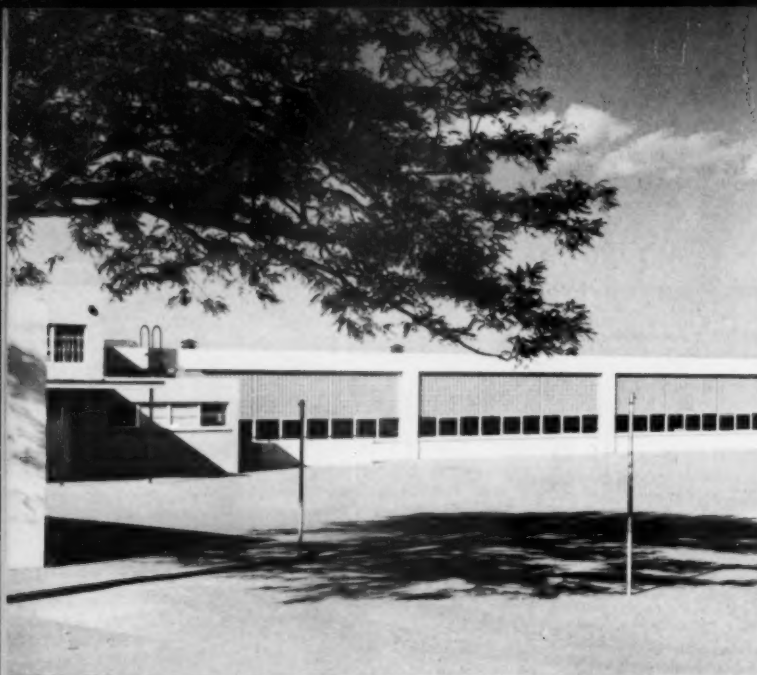
For sheathing and subflooring, specify PLYSCORD, the unsanded structural grade of Interior-type fir plywood. In standard 5/16, 3/8, 1/2, 5/8 and 3/4" thicknesses. PLYSCORD also available with exterior glue, same ply construction. EXTERIOR SHEATHING [EXT-DFPA SHEATHING] has waterproof glue; all veneers of C quality.



For underlayment and wall backing, specify PLYPANEL, the "one-side" grade of Interior-type — or PLYBASE, a special underlayment panel. Both available in standard 1/4, 3/8, 1/2, 5/8 and 3/4" thicknesses. [NOTE: For underlayment around sinks, etc., specify Exterior-type waterproof glue.]

2.4.1

New unsanded "two-for-one" combination subfloor and underlayment panel, used on a 4-foot grid system. 1 1/8" thickness only.



Fir Plywood, Proved Superior for CONCRETE FORMS . . .

Smoother concrete surfaces. Large, smooth panels cut the number of joints and fins, reduce leakage and subsequent rubbing. PlyForm panels are credited with savings as large as twelve cents a foot in cost of rubbing. Smooth surface results in exceptionally attractive architectural concrete.

Multiple re-uses. In the hands of experienced form men, several re-uses can be obtained from Interior-type PlyForm (10 to 15 not unusual). Up to 50 are possible with Exterior-type, and as high as 200 with High-Density Overlaid panels. The unusual strength inherent in plywood's cross-laminated construction makes it strong, warp-resistant and splitproof.

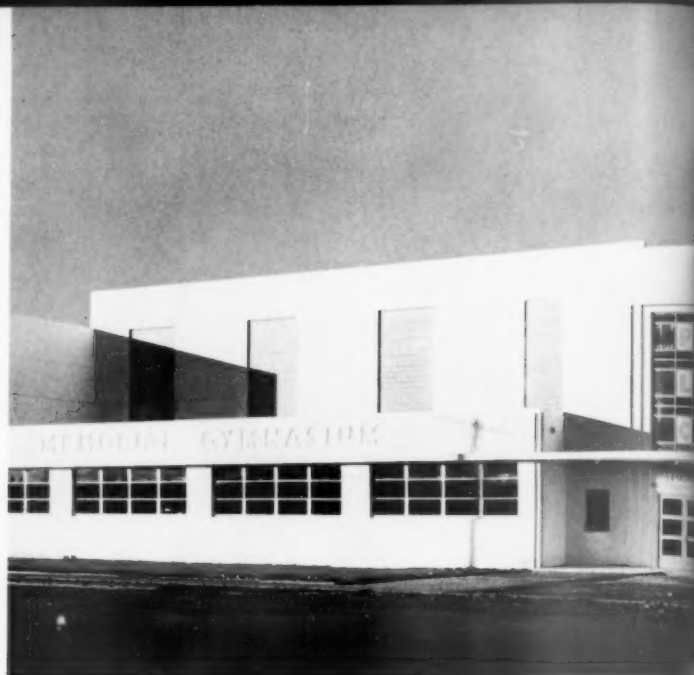
Reduces construction costs. Big, standard plywood panels cover 32 sq. ft. quickly, economically. Large size eliminates expensive piece-by-piece assembly of built-up lumber forms. The usual allowance of $\frac{1}{3}$ extra for board waste is eliminated with plywood. 1000 feet of plywood covers 1000 feet of floor or wall. PlyForm panels have high salvage value, may be re-used for subflooring or sheathing.



For normal re-use of forms, specify **INTERIOR-TYPE PLYFORM** [glueline highly moisture-resistant]. For maximum re-use, specify **EXTERIOR-TYPE PLYFORM [EXT-DFPA]** [100% waterproof glue]. Both are 5-ply, $\frac{3}{8}$ " and $\frac{3}{4}$ " thick. Face veneers, B grade, sanded. Mill-oiled.

For ultimate in re-use and smoothest concrete, specify **HIGH-DENSITY OVERLAID [EXT-DFPA]** fir plywood with smooth, abrasion-resistant overlay of fused resin-fibre, permanently bonded to panel.

For complete data, write Douglas Fir Plywood Association, Tacoma 2, Washington.



LEFT: Fir plywood forms helped set a new Washington State record for low construction costs on this Tacoma school [about 20% below the state average].

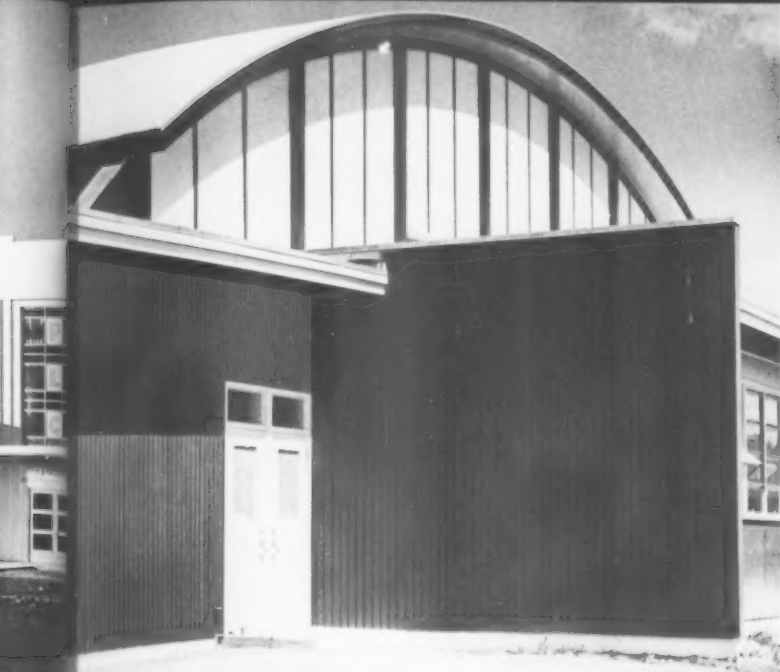
RIGHT: Smooth, flawless monolithic surface on this gymnasium was produced with a minimum of rubbing and finishing.



The design adaptability of fir plywood in concrete form work is dramatically demonstrated by the University of Washington Stadium. Spiral ramps and reinforced supports were poured against PlyForm, reported as the "simplest, least expensive solution."

The following values are guides to thicknesses of PlyForm. Values calculated on basis of panels placed with face grain across studs.

PlyForm Thickness	Stud Spacing	Deflection Permissible	Load
$\frac{3}{8}$ "	12"	1/270 of Span	880 lbs./sq. ft.
$\frac{3}{4}$ "	12"	1/270 of Span	1,330 lbs./sq. ft.
$\frac{3}{4}$ "	16"	1/270 of Span	560 lbs./sq. ft.
$\frac{3}{8}$ "	12"	1/360 of Span	660 lbs./sq. ft.
$\frac{3}{4}$ "	12"	1/360 of span	1,000 lbs./sq. ft.
$\frac{3}{4}$ "	16"	1/360 of Span	420 lbs./sq. ft.



ABOVE: Texture 1-11 fir plywood used for siding on Whitefish, Montana, school. An attractive, minimum-maintenance exterior.

RIGHT: Walkway ceilings of overlaid fir plywood provide a smooth, attractive surface with excellent paint-holding characteristics.



Fir Plywood for Attractive, Durable, Low-Cost EXTERIORS

Specify Exterior-type fir plywood (EXT-DFPA) for siding, soffits, exterior accent and trim. EXT-DFPA on the panel edge is positive identification of plywood made with 100% waterproof glue for permanent outdoor use.

Texture 1-11 combines line and texture in a pattern of deep parallel grooves. Has an unsanded surface and natural wood characteristics that contribute to its striking appearance. Shiplapped edges provide tight joint and continuous pattern. Favored for siding, ceilings, enclosures.

Medium-density overlaid fir plywood serves as siding, and is particularly effective for walkway ceilings, soffits, accent panels. Overlaid panels provide the finest paint base.

PlyShield grade Exterior fir plywood is specified for soffits, gable ends, trim, and for low-cost siding.



Medium-density overlaid fir plywood provides a rugged, weather-proof wall for this school in Bellingham, Washington. The panels offer a smooth base for paint, assure long, check-free service.

VAPOR TRANSMISSION PROPERTIES OF FIR PLYWOOD

Values represent the water vapor transmitted through plywood, expressed in grains per sq. ft. per hour, for difference of vapor pressure equivalent to 1" of mercury. A value of less than 1.00 is regarded as indicating an efficient vapor barrier material. The lower the value, the more effective the vapor barrier. Values are from tests or averages of tests at nationally known laboratories, and are in close agreement with similar DFPA laboratory tests.

GRADE AND FINISH OF FIR PLYWOOD	Water Vapor Transmission in Grains/Hour Sq. Ft./In. Hg.
1/4" INTERIOR, untreated	1.86
1/4" INTERIOR, 1 thin undercoat, 1 coat shellac	0.77
1/4" INTERIOR, 2 coats flat interior paint	1.06
5/16" INTERIOR [Sheathing], untreated	1.80
3/8" EXTERIOR [3 coats]	
1. Standard primer or aluminum primer	0.19
2. Two coats of outside paint	
3/8" EXTERIOR, untreated	0.72

Texture One-Eleven®

TEXTURE 1-11 [grooved Exterior fir plywood] is 5-ply, 3/8", unsanded for texture; face ply unrepainted C grade. Available in 16", 32" and 48" widths, standard 8' and 10' lengths; others on order. Shiplapped edges. Grooves 2" or 4" o.c.; others available.



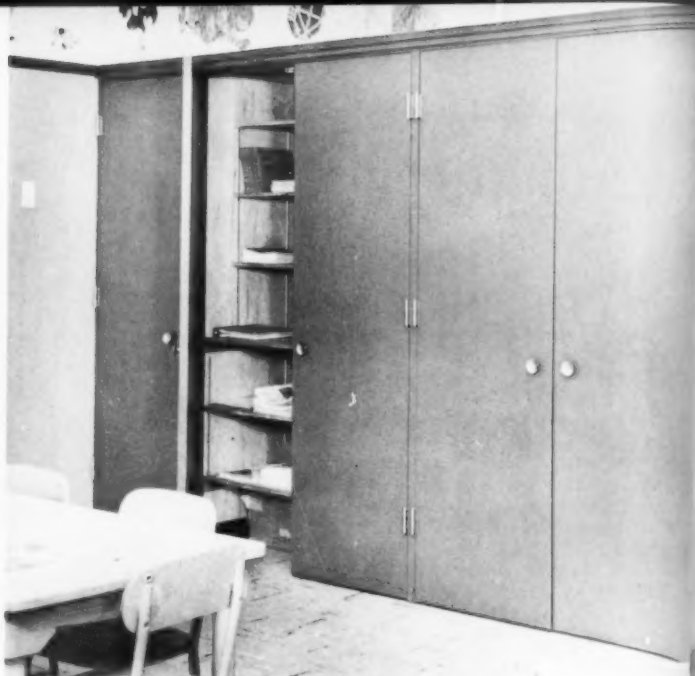
PLYSHIELD is the "one side" grade of Exterior. Standard thicknesses: 1/4, 3/8, 1/2, 5/8 and 3/4".

OVERLAID Plywood

OVERLAID fir plywood (EXT-DFPA) in standard sizes, thicknesses. Medium-density faces are opaque, provide finest paint base. High-density faces are hard, smooth, translucent. Resists water absorption; usually left unfinished.



Exterior panels which are branded EXT-DFPA meet industry quality requirements. See back page.



Damage-Resistant Fir Plywood for INTERIORS and BUILT-INS

Walls, wainscoting, paneling, lockers, cabinets, fixed furniture and decorative effects—all are proven fir plywood applications in school construction. Big panels cover quickly, cut costs. Cross-laminated panel construction resists impact damage. Won't crack, split or shatter. Finishes easily. Reduces maintenance.

Built-ins of fir plywood can be planned to meet exact space and use needs of classroom, office, laboratory, and storage areas.

Decorative panels (Texture 1-11, brushed plywood, striated and embossed plywood) permit design freedom. Overlaid panels are specified for many interior uses — built-ins, table tops, etc.

INSULATION VALUE

Plywood, like any wood, has excellent insulation properties. Panel 5/16" thick, plus air space, has same value as 7/16" "insulation" material.

WALL CONSTRUCTION			"U" VALUES*
3/8" Plywood [Single sheet]			.79
3/4" Plywood [Single sheet]			.58
Inner Lining	Insulation Between Studs	Outer Wall	
1/4" Plywood	None	3/8" Ext. Plywood	.40
1/4" Plywood	1/2" Blanket Insulation	3/8" Ext. Plywood	.19

*Coefficient of thermal transmission in B.T.U.'s/hr./sq. ft./°Temp. difference.

LEFT: Medium-density overlaid fir plywood walls in gymnasium in Bellingham, Washington.

ABOVE: Eugene, Oregon, school has classroom storage cabinet of fir plywood. Panels resist damage, cut maintenance.



Fir plywood effectively used in school office. Panels take a variety of finishes, give years of service with a minimum of maintenance.



① INTERIOR A-A
② INTERIOR A-B

PLY/PANEL is the versatile "one-side" grade of Interior plywood for paneling, built-ins. For uses where both sides of panel will show, specify Interior A-A or A-B. [Sizes and thicknesses same as PlyPanel; see page 3.]

Texture One-Eleven



SPECIALTY PANELS

TEXTURE ONE-ELEVEN and OVERLAID PLYWOOD are also used for interior work. Also other special panels: BRUSHED, with relief-grain effect; STRIATED, with finely combed texture; EMBOSSED, with surface pattern pressed in. Brushed, striated, embossed available in Exterior or Interior type. Thicknesses: 5/16" standard; others on order.

Fir Plywood Contributes to Better Building All Through the School



Medium-density overlaid plywood wainscoting. Also ideal for chalkboard backing.



University of Washington basketball floor — all fir plywood. Removable for other events.



Desk tops of high-density overlaid plywood are scratch-resistant when left unpainted.



Library built-in. High-density fir plywood can be left unfinished for greater economy.



Classroom cabinets with adjustable shelving. A storage problem solved with fir plywood.



School kitchen walls and ceiling, 3/8" fir plywood. Panels take beautiful paint finish.



Library table tops of high-density plywood. Gives excellent wear, reduces maintenance.



Cafeteria in Student Union Building — with fir plywood on walls, partitions, counter.



Texture 1-11 fir plywood accents a trophy case. Textured panels give beauty at low cost.



Manual arts classroom has work benches and storage of durable fir plywood. Economical to build.



High-density overlaid fir plywood builds low-cost tanks and vats. Resists chemicals.



Auditorium-gym has walls of 3/8" PlyPanel with paint, stain, and varnish finish.

SOUND INSULATION

SOUND DEADENING SOUND ABSORPTION COEFFICIENTS

PARTITION CONSTRUCTION	Sound Transmission Loss in Decibels	MATERIAL	FREQUENCY CYCLES					
			128	256	512	1024	2048	Avg.
1/4" Douglas fir plywood, both sides	31.1	1/4" Douglas fir plywood on both sides of 2x4 studs	.31	.11	.14	.12	.10	.16
1/2" Gypsum Plaster, metal lath, both sides	33.2	1/4" Douglas fir plywood both sides with 3/4-lb. felt and wall-paper over plywood	.35	.18	.16	.11	.13	.19
1/2" Gypsum Plaster, wood lath, both sides	33.4	Plaster, gypsum or lime, smooth finish on lath	.02		.03		.04	.03
SINGLE SHEETS								
1/4" Douglas fir plywood	22.4	Plaster, gypsum or lime, rough finish wood paneling	.04	.06			.05	.05
1/4" Fibre board A	22.2	Linoleum, asphalt, rubber or cork tile on concrete floor			.03 to .08			
1/2" Fibre board B	21.0							

ACOUSTICAL VALUE

Fir plywood rates well acoustically, both in absorbing sound and in reducing sound transmission. Table shows test results.



**This trademark means
DEPENDABLE plywood**

...backed by rigid DFPA-Industry
quality program

DFPA GRADE-TRADEMARKS are for your protection. They're your assurance of quality, performance and value.

Behind them is the Douglas Fir Plywood Association quality control program—backed by the integrity and experience of an entire industry. Quality supervisors regularly inspect every factory licensed to use trademarks. In a month's time, the production from *each* shift in *every* factory is checked in many ways. Production is inspected at every stage of manufacture. In addition, thousands of samples are collected for exhaustive testing in three DFPA laboratories.

Since plywood performance is determined largely by inner-ply construction and glue, these are carefully checked along with outer plys.

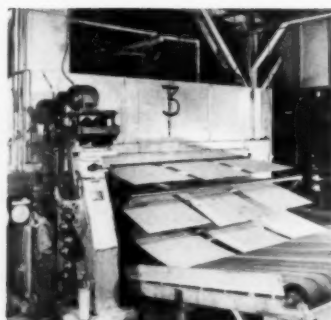
Only genuine DFPA Quality-Tested panels bear registered DFPA trademarks. There are imitations. Don't be misled. Look for the letters "DFPA" appearing on back or edge of panel. Remember—they represent a standard of quality manufacture that *exceeds* U. S. Commercial Standard requirements.



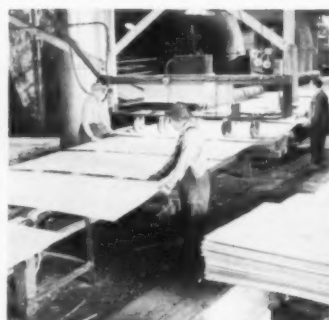
THESE ARE THE STEPS TO DFPA QUALITY—TESTED FIR PLYWOOD



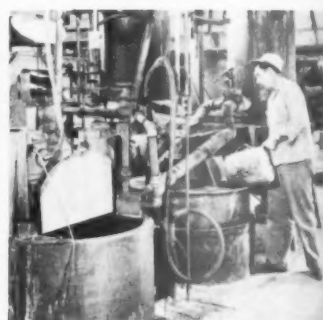
1. Check veneer for uniform thickness. This provides correct thickness of finished panel, optimum glue spread.



2. Check veneer for correct moisture content, which gives maximum dimensional stability, proper glue bond.



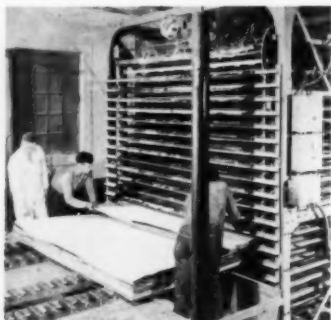
3. Check both *inner* and *outer* plys for compliance with rigid industry and U. S. Commercial Standards.



4. Check for complete adherence to glue manufacturer's mixing directions. Before glue is used it must meet rigid tests.



5. Check for precise amount and uniform coverage of adhesive. Check curing time, re-check veneer condition.



6. Check for correct and uniform pressure and temperature; correct time under pressure to secure perfect glue bond.



7. Check carefully for grade and appearance. Check accuracy of dimensions and thickness. Apply grade-trademarks.



8. In DFPA Laboratory, glue line testing of samples backs up mill supervisors. Samples must meet rigid standards.

ADDITIONAL DATA available: How to Buy Fir Plywood (including description of veneers used in various grades); Concrete Form Booklet; Basic Plywood Catalog; Plywood Specialties Catalog; Design Data. Write Douglas Fir Plywood Association, Tacoma 2, Washington



LIBRARY of Moon Township School, Coraopolis, Pennsylvania, is framed by glulam beams which harmonize with paneled walls and blonde furnishings. Architects: L. H. Button and Paul F. McLean, Pittsburgh; contractor: Rea Construction Company, Pittsburgh.

MODERN SCHOOLS

with Structural Framing of Engineered Timber

TIMBER STRUCTURES, INC.

Charter Member
AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

P. O. Box 3782-H
Portland 8, Oregon

Genuine Economy

Glued laminated timbers in post-and-beam construction require foundations of only limited area and depth instead of heavy perimeter foundation walls. With timber members supporting roof loads, relatively light curtain walls are ample, and bearing partitions may be eliminated.

Glued laminated timbers add greatly to the appearance of a room when left exposed. This saves the cost of concealing structural members with ceilings.

Safe in Fire, Wind, Shock

The natural insulating properties of heavy timbers resist penetration of heat, and the timbers yield strength slowly and stubbornly. Firemen have added time to fight the flames and minimize damage.

Since timber members do not expand laterally during fire, they do not collapse outer walls as some other materials do.

Engineered timber construction also has a resilience that preserves strength under shock of wind and seismic impact, often leaving structures sound when other construction is heavily damaged.

Long Service Life

Typical of the long life of timber construction is Connecticut Hall,

built in 1750 on the Yale campus. Much of the original timber framing is still in use. Modern timber construction, with glulam members designed to engineering detail and joined with scientifically designed connections, will be even more durable than before.

Attractive Appearance

School interiors with exposed glulam structural members have a warm, friendly appearance, with none of the "institution look." This makes pupils' adjustment easy, and students and teachers feel at ease.

Flexibility for Changes

In order to remain suitable for new conditions of enrollment and curricula, schools should make provisions for alterations and expansion. Timber framing is readily altered and expanded, and may easily be adapted to changing requirements and uses. Obsolescence, therefore, is of minor concern.

Easy, Low-Cost Maintenance

Timber is not subject to rust and corrosion. So it need not be painted periodically in order to preserve it.

When exposed to excessive moisture or termites, preservative treatments are readily available which render timber impervious to damage from these sources.

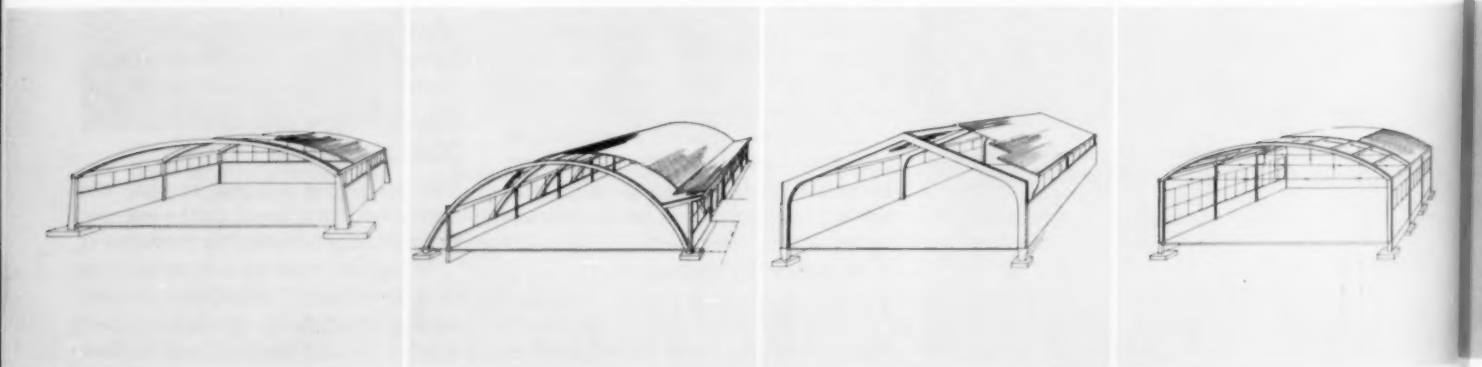


⬢ **GYMNASIUM** of high school at Vero Beach, Florida, uses glulam timber arches of 93'-6" span for structural framework. Heavy timber decking was installed over the arches, with no joists required. Architects: Duncan, Steward and McVay and William G. Taylor, Associate, of Vero Beach, Florida. Contractor: Edward M. Fleming Construction Company, Miami, Florida.


⬢ **MULTI-PURPOSE ROOM** at Bedford Park, Illinois, is framed by glulam timber arches. Architects: Perkins and Will, Chicago; contractor: Power Construction Company, Oak Park, Illinois.




TYPICAL GLULAM ARCH APPLICATIONS

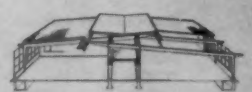
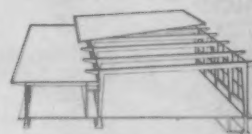
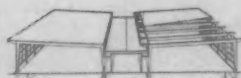
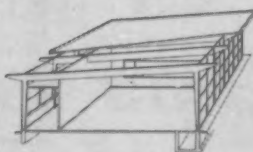
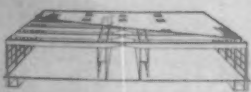





 **CLASSROOM** of Broadmeadow School, Needham, Mass., features glulam beams in roof framing. Heavy timber decking was applied over the beams, with acoustical tile on under side. Architects: Hugh Stubbins Associates, Lexington, Mass.; contractor: Vara Construction Company, Boston.

 **KINDERGARTEN ROOM** at George Elementary School, Portland, Oregon, uses curved and tapered glulam beams to support the roof. Architect: Donald W. Edmundson, Portland; contractor: A. V. Peterson Company, Portland.

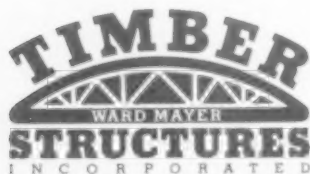
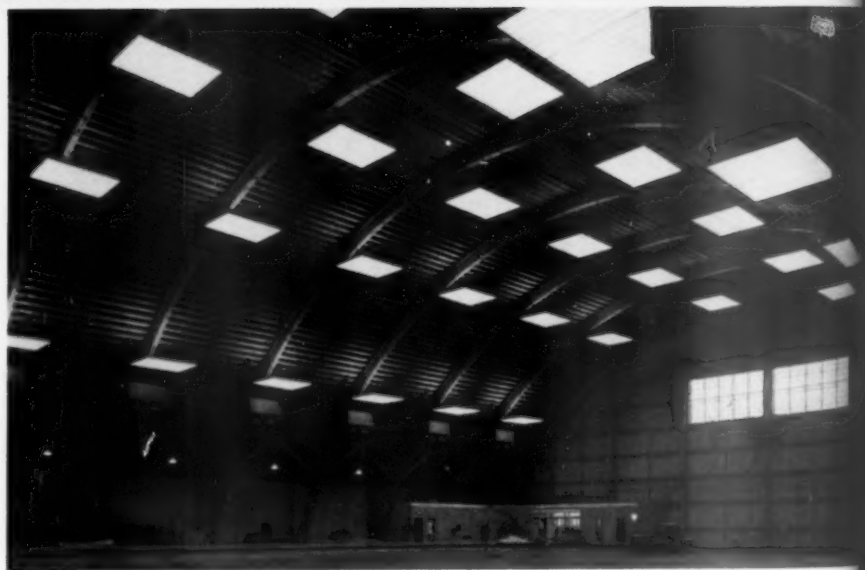
TYPICAL GLUED LAMINATED BEAM APPLICATIONS





 **FIELD HOUSE** at Montana State College, Bozeman, Montana, is 300 feet in diameter, with no interior posts or supports. A dome of glulam timber supports the roof. Seating capacity for basketball is 12,500. Architects: Fred F. Willson and Oswald Berg, Jr., Bozeman, Montana. Contractors: Haggerty and Messmer, Bozeman.

FIELD HOUSE at Union College, Schenectady, New York, is 198' x 209'-6" in size, with framing of 198' glulam timber arches. Architects: McKim, Mead and White, New York City; contractors: McManus, Longe, Brockwehl, Inc.



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TODAY'S BETTER SCHOOLS ARE BUILT OF **WOOD**

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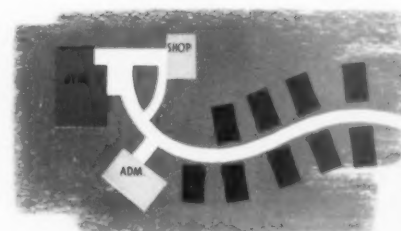
WOOD

GIVES MORE SCHOOL FOR THE BUILDING DOLLAR

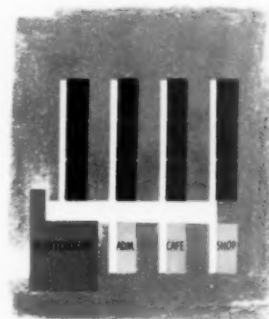
A combination of low cost, high quality and eye-appealing beauty is being achieved today in every part of the nation through the construction of one-story schools of wood. These modern structures are providing pleasant surroundings as well as more efficient places for teachers and students to work. School boards, architects and taxpayers are finding that the numerous advantages offered by wood make it today's biggest value in school construction.

There are no special plan or design limitations when wood is the construction material. Classrooms, corridors, cafeterias and gymnasiums can be effectively arranged to best fit individual requirements. Shown here are four of the many possible variations, each built readily of wood.

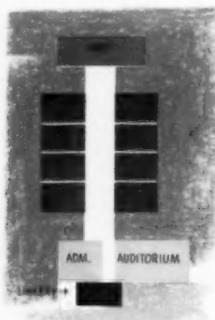
Modern developments in wood trusses and glued-laminated members make possible exceptionally long spans providing post-free space for gymnasiums, auditoriums and classrooms of any size. Sturdy wood framing is easily designed to support all loads and to resist wind and earthquake forces. The many possible variations in treatment of wood exteriors and interiors assure interesting and individual effects. All these features of wood construction make possible a sound, well-designed school building which is a credit to any community.



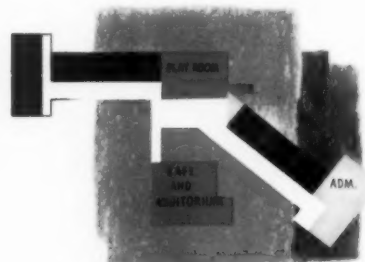
CAMPUS plan. Classrooms, administration quarters, library, other buildings are connected only by sidewalks.



FINGER or "tree" type school may be extended easily. Rooms are oriented to sunlight along a trunk corridor and its branches.



CENTRAL CORRIDOR construction. Rooms are connected to straight-line corridors. This plan shortens communication lines between rooms.



DOUBLE WING plan. The classroom wings are joined, with playroom and storage room forming central hub.

PROBLEM: Old school building, erected in 1936, was overcrowded, and site allowed no expansion. Additional classrooms were needed immediately.

SITE: A new site was selected, with adequate space available for expansion of a basic school building of one-story design. In a wooded area, clearing and leveling took two weeks prior to actual construction.

PROGRAM: Local labor was used throughout, since wood construction eliminated need for specialized labor. While the concrete foundation was being poured, carpenters worked on the floor system, plumbers on soil-pipe and septic tank. Other craftsmen, including electricians, were able to work on their specialties while building was being erected.

FROM GROUND WORK TO CLASS WORK IN 120 DAYS

North Mason Junior High School, Belfair, Washington



COST: School area (six classrooms, library, special work room, administrative and storage areas), 11,742 square feet, \$142,335 or \$12.12 per square foot. (Cost includes expensive site work, septic tank, waste and water systems, separate central heating plant, and piping placed for future buildings. Cost does not include land, furniture or architect's fees.)

TIME INVOLVED:

Construction begun July 27, 1957. Pouring of concrete footings begun August 12. Installation of wood beams to carry sub-flooring begun August 16. Building ready for occupancy November 15, 1957. (Actual occupancy, by decision of school authorities, delayed until January 1, 1958, due to Thanksgiving and Christmas holiday periods.)

ARCHITECT:

William Arild Johnson

GENERAL CONTRACTOR:

Bona Fide Builders, Inc.

MECHANICAL CONTRACTOR:

Harold Jewell Plumbing & Heating

ELECTRICAL CONTRACTOR:

Rhodes Electric

(See next page for construction photographs.)

**LOW COST, TWO-COMMUNITY
SCHOOL** offers expansion
capacity plus beauty
and high quality



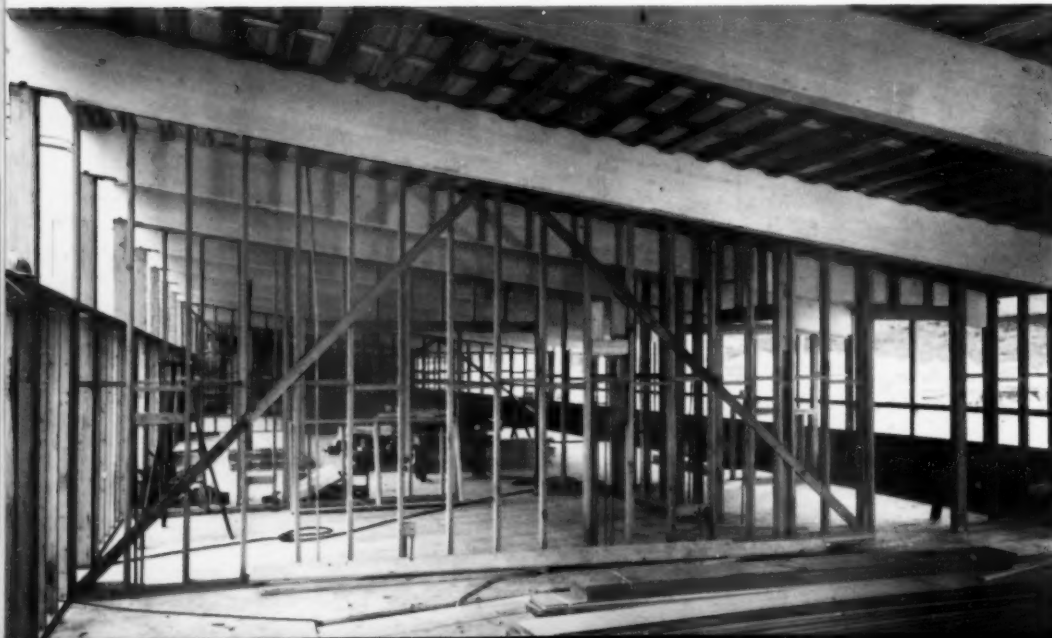
AUGUST 12: After a July 10 ground-breaking, this school on a 57-acre plot midway between Belfair and Washington, is well under way. The following sequence illustrations show many of the steps



AUGUST 26: With vertical posts in place, workmen install glued-laminated Douglas fir beams which permit post-free interiors.



AUGUST 29: For Washington school officials looking for future expansion by center plumbing lines to be used for nail



SEPTEMBER 11: Plumbers and electricians have placed utilities while carpenters installed the partitions. Another example of several trades being able to work at the same time, with savings in time and money.



school in completing a modern school . . . and in the record time of 120 days. Note that the use of wood is the basic material allowed many building functions to proceed simultaneously.



AUGUST 16: While concrete foundations are being poured, workmen place beams for sub-floor as plumbers are placing soil pipe for sanitary system. Ability of several trades to work simultaneously speeds scheduling, cuts labor costs.



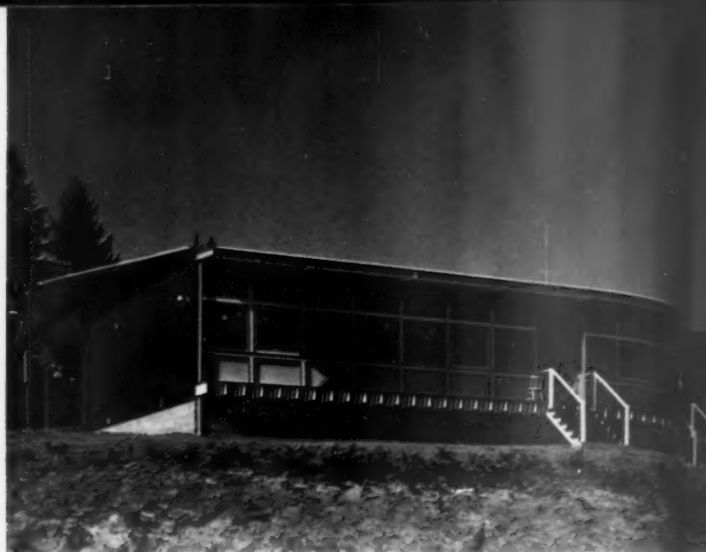
For gymnasium, cafeteria, auditorium and shop facilities. As plumbers finish crawl space work, workers place 2x6 T&G Douglas fir decking on nailed-laminated beams.



SEPTEMBER 9: 2x6 T&G roof decking is being put in place. Sheathing, applied diagonally, provides additional structural strength. Typical span is 34 feet, with bent spacing 8 feet on center.



OCTOBER 1: Nearly ready for occupancy, the finishing touches remain. As fire safety factor, separate building houses heating plant which will feed steam radiators in each classroom from oil-fired furnace. Window frames are all wood. Siding is Western red cedar.



Light, airy classrooms are designed to provide for maximum ventilation. Classrooms have double exits to outside areas. Walls are of wood frame construction. Boxed beams. Windows are wood frame.

In addition to low cost, this sturdy, attractive building requires little maintenance. All walls are of wood frame construction. The exterior is of Western red cedar which blends beautifully with the surrounding landscape. Interior is paneled with West Coast hemlock.

ARCHITECT: H. H. Waechter, A.I.A. GENERAL CONTRACTOR: E. J. Erickson

AND IN **SEASIDE** THE UNION HIGH SCHOOL WAS DESIGNED TO WITHSTAND THE WEATHER!

Resort city Seaside is on the rugged Oregon coast where buildings at intervals must take a buffeting from wind, heavy rain and salt air. Again wood was chosen because of its durability and because it provides an answer to demands of cost, work schedules and overall utility and value. Availability of lumber permitted a local contractor to use local labor.

The eight general classrooms, plus seven special purpose rooms, a cafetorium and library, called for 43,378 square feet of space within the walls. With a one-story school of wood these demands were met—for an overall cost of \$448,199 or \$10.35 per square foot. Features of the frame construction are glued-laminated beams combined with wood joists and wood siding. School will accommodate 365 pupils, can be expanded to handle hundreds more. Started late in 1957, the school will be ready for occupancy by September, 1958.

ARCHITECT: Annand, Boone & Lei, A.I.A. GENERAL CONTRACTOR: Albert Mittet



igned to be for small children. All class-
side are carried by lumber and plywood
d frame best sight line for children.

attracting offers advantages in easy
frame come the outside with rough-side-out
utifully. Sheathing is placed diagonally.
emlock is

GENERAL P. Erickson

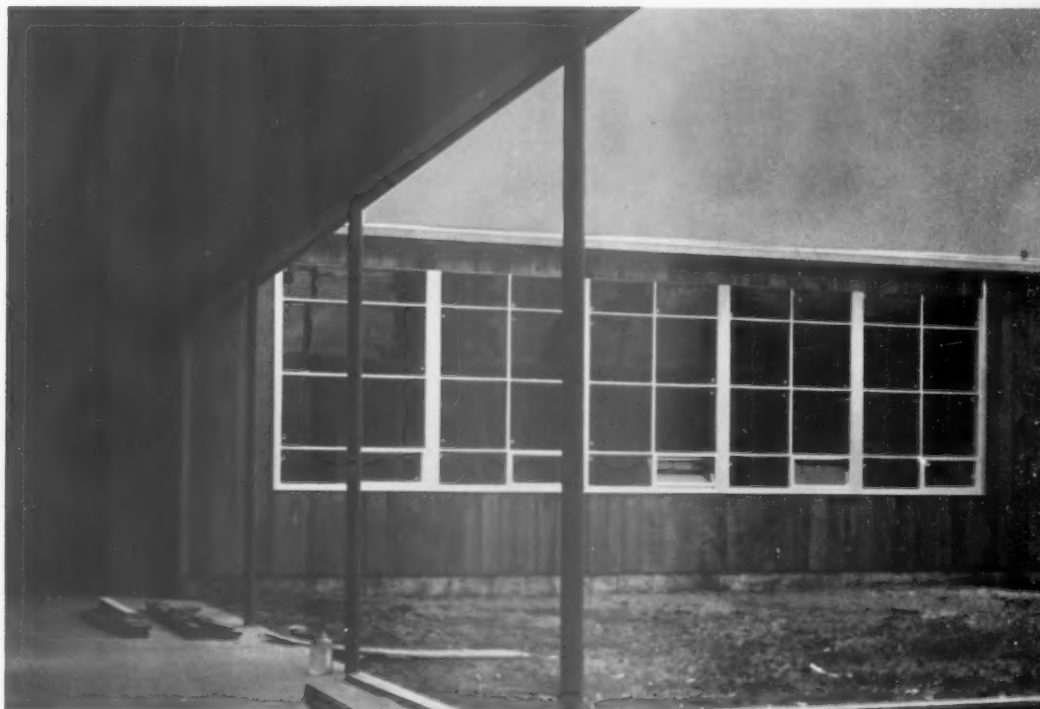


SCHOOL OFFICIALS GIVE **NOTI** BIG FACILITIES ON SMALL BUDGET

The problem facing the school board at Noti, Oregon, was typical: On a small budget, provide new school facilities allowing high educational standards; maintain top quality; provide also a structure which will at times double as a community social center.

Their solution was a two-unit plant of wood embracing three classrooms and a multipurpose building to house gymnasium, auditorium and cafeteria. The combined area of 13,258 square feet cost \$84,000, exclusive of site, for an average of less than \$6.50 per square foot. Construction was started on April 1, 1957, and was completed September 1, 1957.

Architect H. H. Waechter, of nearby Creswell, successfully blended a casual contemporary style with a steep slope and provided a sweeping view of the surrounding valley. Teachers, students and taxpayers are justly proud of the result both from an artistic and economic standpoint.



A sturdy wall of lumber and a covered walk provide one side of a court which admits maximum light to classrooms during dreary winter days. For a gymnasium or music room, (left), a solid expanse of lumber is an economical means of achieving interest through texture and colors.

OTHER IMPORTANT FACTORS MUST BE CONSIDERED...

FIRE SAFETY

Design, rather than type of building material, is the key to school fire safety. The modern one-story school with ground level exits from each classroom has eliminated the need for special fire escapes and reduced panic danger. The *contents* of a school building, rather than the construction materials, are the source of most fires and comprise the principal fire danger. The combustibility of wood seldom is a factor in fire safety. Wood timbers will char but retain their strength in high temperatures for long periods of time. Some materials, on the other hand, collapse in temperatures over 1200°F.

Statistically, the incidence of fire is approximately the same in all types of buildings. Good design that provides for adequate fire hydrants, fire control and detection systems, separation of the school plant into smaller units, and adequate protection of the furnace room can reduce the concern for fire safety in all types of buildings.

A well designed one-story frame school can provide better fire safety than schools in which consideration of fire detection, protection and control has been relaxed because of so-called incombustible construction.

INSURANCE

Design is by far the greatest factor to be considered in connection with insurance costs. Elements of design which contribute to lower insurance rates are separation of the heating plant from the main building or provision for a fire resistive enclosure; properly installed and adequate wiring; and separation of shops and other high incidence areas. Variances in rates, depending on materials used, must be weighed against cost of the original structure. Insurance is part of annual expense, while the cost of the building normally must be kept within bonding capacities of the school district. Interest on bonds, however, is also an annual expense, so any saving in original building costs will result in a substantial saving in annual interest. This often more than offsets higher insurance rates for wood schools.

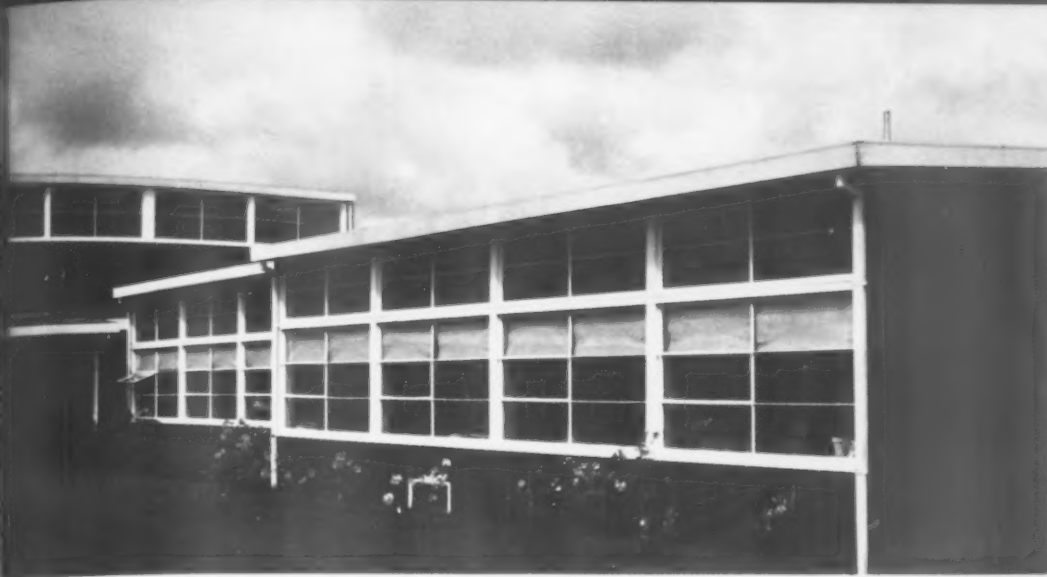
MAINTENANCE

An analysis of maintenance points up the fact that the type of construction or materials used is not a primary consideration. In school buildings, as in homes, the areas and surfaces subject to wear and direct use are the ones requiring maintenance. Hardware, plumbing fixtures, roofs and floors are among the principal items calling for upkeep and repair. Wood construction with its resulting economies permits purchase of top quality brands of the high-maintenance items, thereby assuring reasonable maintenance costs. Shown here are three examples of actual maintenance records for schools of wood. Note that the upkeep costs for schools of wood are no more than routine.

FIVE-YEAR MAINTENANCE RECORDS FOR WEST UNION SCHOOL

ITEM	1957-58	1956-57	1955-56	1954-55	1953-54
Maintenance of Grounds	\$613.29	\$719.96	\$432.19	\$1,647.54	\$149.77
Plumbing & Heating Repairs & Upkeep			7.13	34.38	
Electrical Work & Supplies		76.80	4.00	144.16	10.81
Hardware, Glass & Misc. Items	5.00	56.22	100.29	109.71	144.21
Roofing & Sheet Metal Work		88.25	15.00	93.00	253.25
Exterior Painting & Upkeep				16.92	541.47
Non-wood Wall Upkeep		93.44		8.49	547.80
Cabinets or Wall Paneling			3.05	37.66	24.82
Wood Doors & Windows		.56			1.90
Floors (Asphalt Tile)		7.74		67.75	

Schools do not normally keep such detailed cost records. It is interesting to note the breakdown when records are kept as they are in this particular school.



After years of heavy use, this one-story frame school at Creswell is clean and beautiful, as it will be for many years to come.

ARCHITECT:
Wilmsen & Endicott, A.I.A.
SUPERINTENDENT:
Robert Llewellyn
CUSTODIAN:
James A. Coleman



Built in 1911, the older of Creswell's two grade schools is still in constant use.

CRESWELL SAYS WOOD IS PROVED MATERIAL

There are two grade schools in Creswell, Oregon, both constructed of wood. One has been in almost daily use since 1911; the other was built in 1950.

Although old in appearance, the two-story frame structure has proved its usefulness through the years, with a minimum of maintenance expense and a maximum of versatility. This building is now due for inexpensive renovation which will be done with local labor and locally available material. The modern school, with some 20 classrooms, takes advantage of contemporary advances in school construction and design.

Combined annual maintenance cost for the two schools is as follows: 1955-56, \$484.50; 1956-57, \$1,433.76; 1957-58, \$550.00; 1958-59 is budgeted for \$2,500, which is in large part earmarked for refurbishing the old school.

At left is gymnasium of 10-year-old school at West Union, Oregon. Table on opposite page gives detailed maintenance costs for entire school.

ARCHITECT: Annand & Kennedy, A.I.A. PRINCIPAL: Paul A. Merriss
CUSTODIAN: Melvin Marsh

Firgrove Elementary School, Beaverton, Oregon, is another example of low upkeep cost for wood schools. Now four years old, cost of maintenance has been virtually nil. Only big expenditures have been \$300 for staining siding, not included in original contract, and \$125 for waterproofing concrete block work.



ARCHITECT: James C. Gardiner, A.I.A. SUPERINTENDENT: Errol Hassell
CUSTODIAN: James Baker



MODULAR FRAMING SYSTEM

The structural system of the plank and beam floor arrangement shown is independent of the structural system of roof and walls. Floor beam sizes and spacing depend on floor loads. Roof beam sizes depend on roof loads. Their spacing depends on the most convenient module to accommodate windows and partitions.



BASIC FRAMING DETAILS ARE ALL-IMPORTANT TO FINAL STRUCTURE

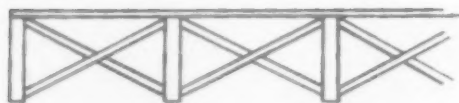
Schoolroom floors supported by wood joists or wood planks and beams are advocated most heartily by teachers who have taught on them. Their natural resilience and thermal insulation provide extra comfort to ease a teacher's miles of walking and hours of standing.

The accessible crawl space under a wood floor system is the real bonus for farsighted school boards. To them, this space means that pipes can be repaired easily; plumbing can be moved anywhere in the building to accommodate changes in activities; new utilities, as yet not even manufactured, can be added as they become available.

There are also some very worthwhile construction advantages. Both the plank and beam floor system and

the conventional wood joist system are built of standard sizes of lumber available everywhere. The carpenters who can build them aren't concentrated in a few industrial centers but live and work in virtually every community in the country. The economies and advantages of these wood floor systems can be realized by every school district; they are particularly evident in small and remote communities, or on sloping and difficult building sites.

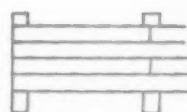
The illustrations and notes shown here should not be regarded as complete specifications for a school building floor system. They merely point out some of the fundamentals. The actual design of each building by an architect will meet local conditions.



CONVENTIONAL CONSTRUCTION

in which joists of Douglas fir or West Coast hemlock are spaced at uniform intervals, is widely used for classroom floors. Although the spacing may vary, joists usually are spaced 16 inches apart. For this spacing, spans will vary from 9 to 10 feet for 2" x 6" joist, 12½ to 14 feet for 2" x 8" joist, 15½ to 17½ feet for 2" x 10" joist and 19 to 21½ feet for 2" x 12" joists, based on the range of classroom floor loads normally encountered.

These spans are limited by deflection. The strength of "Standard" (1200f) grade Douglas fir and West Coast hemlock is more than ample for the induced bending stress.



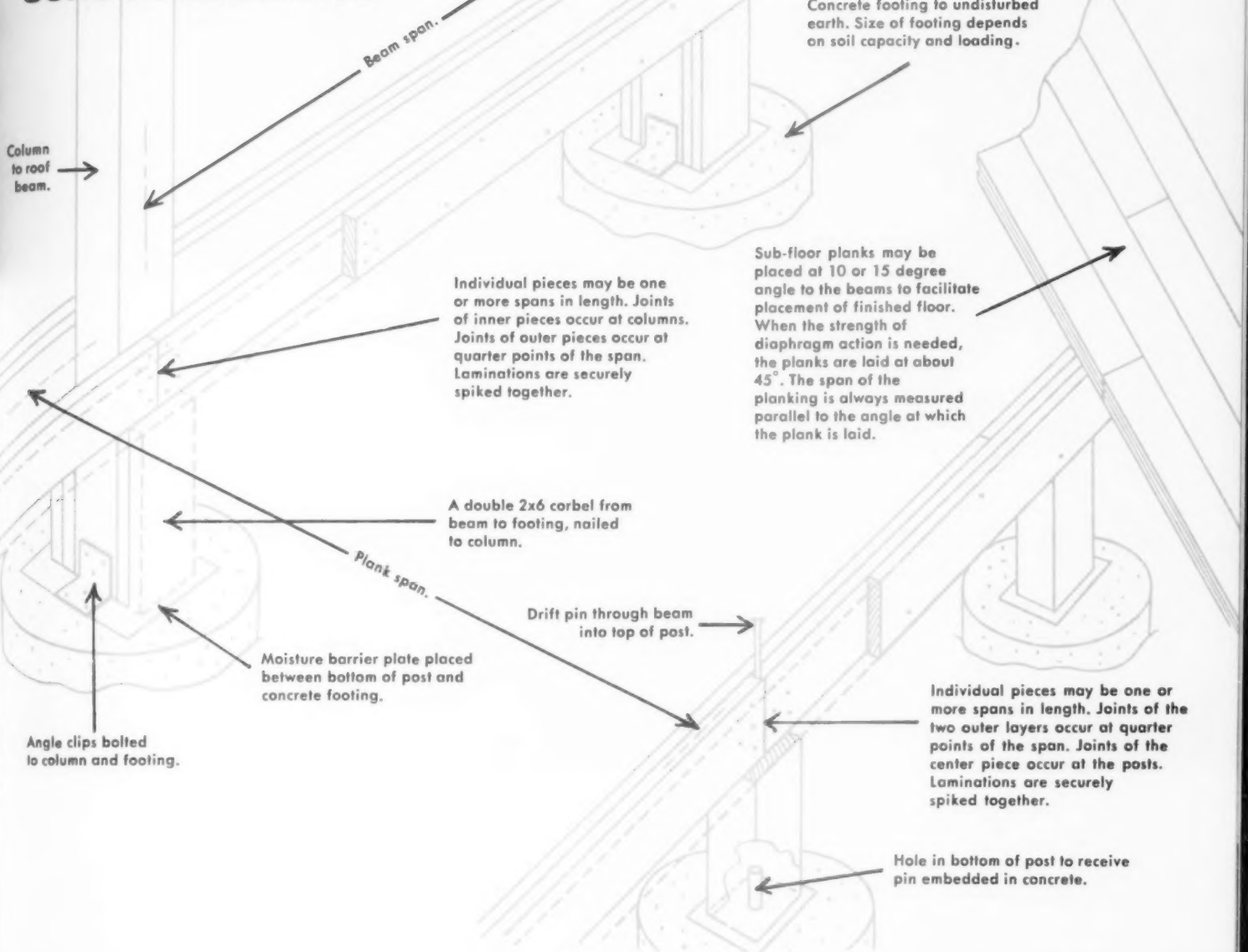
PARTIALLY CONTINUOUS PLANK SPANS

consist of pieces two spans in length. End joints occur over beams and are staggered in adjacent lines of pieces.

Deflection of this "partially continuous" span arrangement is less than for a "simple" span under uniform floor loading. Assumed floor live loads for classrooms vary, depending on the building code or other regulatory document used, but are generally in range of 40 to 50 lbs. per sq. ft. For these loadings, the plank spans would be approximately between 6'-6" and 7'-6". These spans are mostly limited by an allowable deflection since the strength of "Standard" (1200f) grade Douglas fir or West Coast hemlock is more than ample for the induced bending stress.

The conservative formula for bending moment in plank spans limited by bending is $M = \frac{wl^2}{8}$. To compute the deflection for "partially continuous" type planking, the formula is $\Delta = \frac{wl^4}{110B}$.

A PLANK AND BEAM FLOOR SYSTEM FOR SCHOOL BUILDINGS



RANDOM LENGTH FLOORING



of 2" x 6" or 2" x 8" T&G should be end matched or end splined. End joints should be well scattered with each plank bearing on at least one support. Assumed floor live loads for classrooms vary, depending on the building code or other regulatory document used, but are generally in the neighborhood of 40 to 50 lbs. per sq. ft. For these loadings, the plank spans would be approximately between 6'-0" to 7'-0". These spans are mostly limited by an allowable deflection, since the strength of "Standard" (1200f) grade Douglas fir or West Coast hemlock is more than ample for the induced bending stress.

The conservative formula for bending moment in random length plank spans limited by bending stress is

$$M = \frac{w l^2}{8}$$

To compute the deflection for random length plank decking, the formula is

$$\Delta = \frac{w l^4}{100 E I}$$

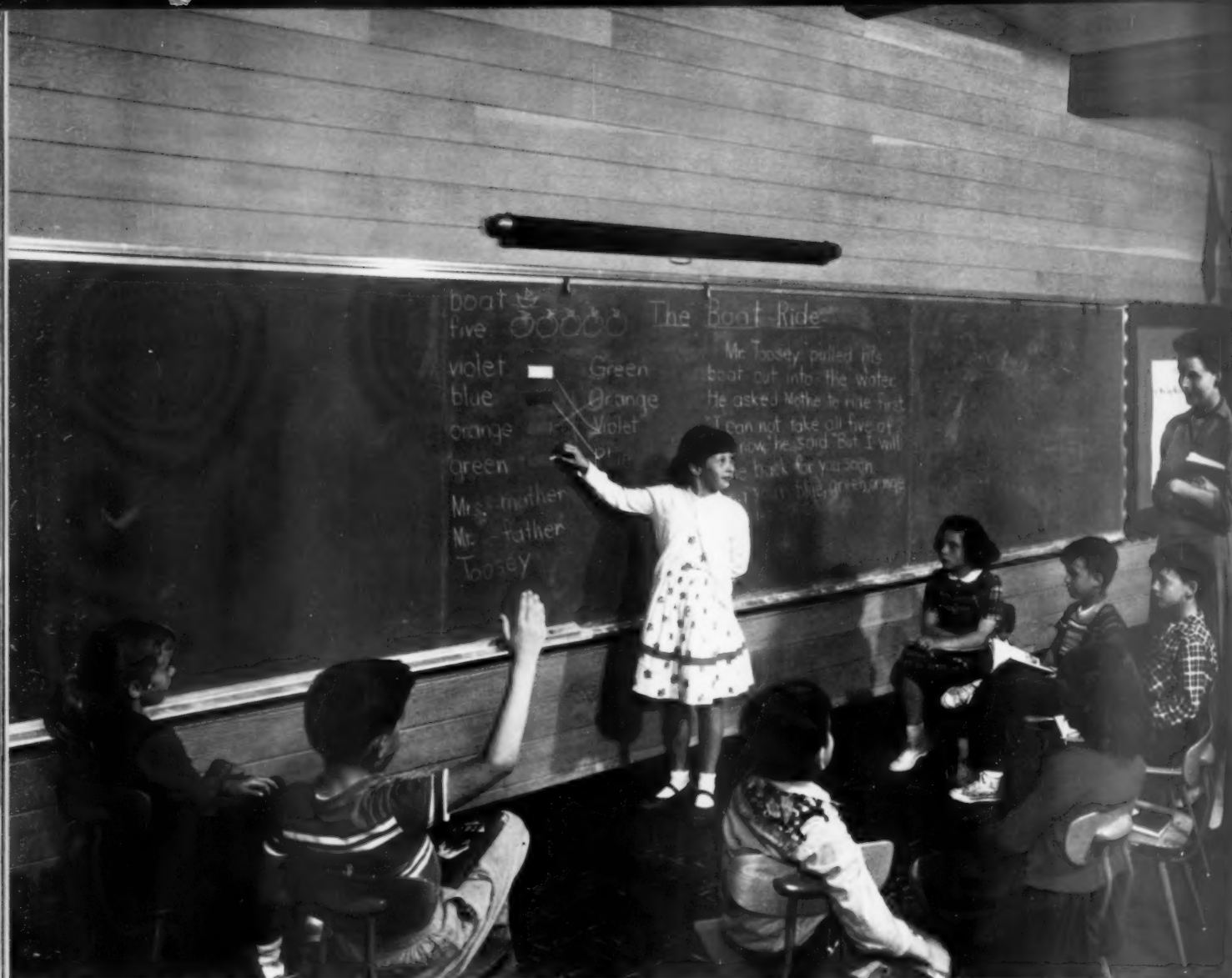
The modulus of elasticity for Douglas fir is $E = 1,760,000$ and for West Coast hemlock is $E = 1,540,000$.

NAILED LAMINATED BEAMS



Nailed laminated beams of Douglas fir or West Coast hemlock dimension lumber can be constructed on the job by placing pieces side by side as shown and securely spiking them together. For the range of classroom floor loads normally encountered, nailed laminated beams composed of 4 pieces spiked together and spaced at intervals of 6 to 8 feet will vary in span from approximately 8 to 10 feet for 2" x 6" pieces, 11 to 13½ feet for 2" x 8" pieces, 13½ to 17 feet for 2" x 10" pieces and 16½ to 20½ feet for 2" x 12" pieces. For 3 pieces spiked together and spaced at intervals of 6 to 8 feet the spans will vary from 7 to 9 feet for 2" x 6" pieces, 10 to 12 feet for 2" x 8" pieces, 12½ to 15½ feet for 2" x 10" pieces and 15 to 18½ feet for 2" x 12" pieces.

These spans are mostly limited by deflection requirements. The strength of "Standard" (1200f) grade Douglas fir or West Coast hemlock is more than ample for the induced bending stress.



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St. Bede College Gymnasium, Peru, Ill.
Architect: Belli and Belli, Chicago



Ursuline High School, Youngstown, O.
Architect: P. Arthur D'Orazio

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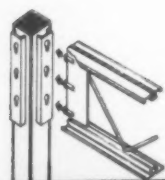
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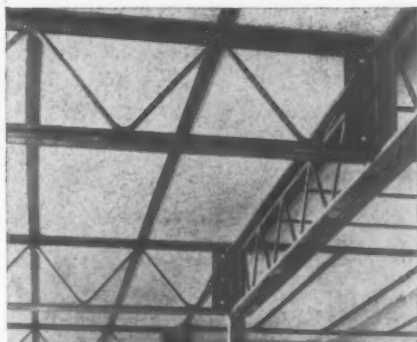


V-LOK construction builds classrooms faster — at lower cost!

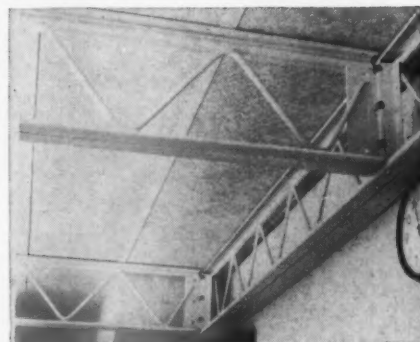
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Steel framing with the Macomber V-LOK interlocking system means no on-the-job bolting, riveting or welding. Entire frame is erected in a few short days after steel delivery.



Under roof in just a few days more. Masonry and inside work can proceed without delay, regardless of weather. Nailable top and bottom chords are adaptable to any type roof or ceiling.



Finished classrooms are ready for occupancy months sooner than with other framing systems. Uniformity and attractive design of members makes lower, exposed ceilings possible.



Modular bay sizes are available for classrooms, corridors, offices, boiler rooms, cafeterias, auditoriums, etc.—to fit any architectural layout. System represents a substantial reduction in weight and erection cost per square foot.



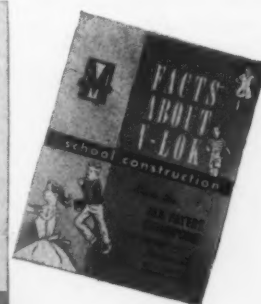
Complete architectural freedom as to finish, interior arrangement, mechanical and electrical layouts and closure materials is allowed by V-LOK construction.



This addition to Five Points Elementary School, Fairborn, Ohio — 24 classrooms, 41,000 square feet, is all V-LOK construction. *Architect*, Walker, Norwick and Associates, Dayton. *Contractor*, James I. Barnes, Construction Co., Springfield.



Completed building of original portion of Five Points School erected two years ago—20 classrooms, 28,000 square feet—with V-LOK framing. By duplicating plans for the addition, completion time and in-place costs were reduced.



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RILCO LAMINATED PRODUCTS, INC.

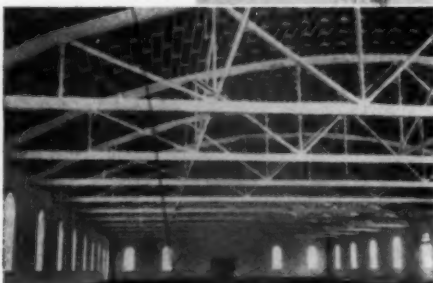
W822 First National Bank Bldg., St. Paul 1, Minn.

**You get
economy
beauty
and
all-important
safety with
RILCO wood
laminated
members**

Gymnasium-auditorium, Payson (Illinois) high school. Entire school cost only \$9.99 a square foot. "Very pleased — building cost considerably reduced . . . a definite 'quality' appearance at economy prices," comment architect and contractor.



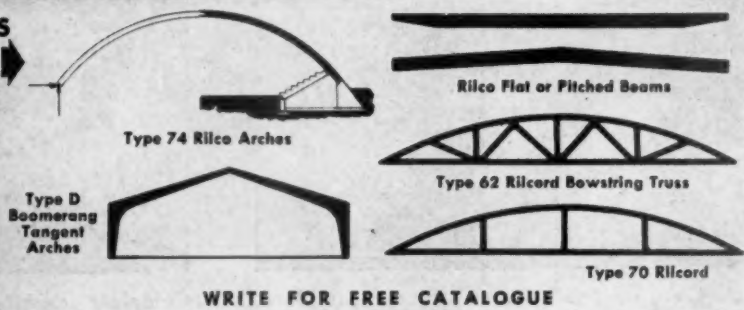
BASIC SHAPES OF MEMBERS



Indoor riding hall, Valley Forge (Pennsylvania) military academy covers 1½ acres. Rilco trusses erected in a week. "Economy was an important factor" — school officials.



Classroom, Burlington (Massachusetts) elementary school. Budget was \$11.75 a square foot but bid only \$11.45. Schoolboard so pleased they ordered a second 20-room school!



New schools for \$7.75 — \$8.86 — \$10 a square foot! Rilco wood laminated arches and beams and deck are helping schools everywhere build better, yet stay within the budget. Save time too — contractors report prefabricated Rilco members save up to half the erection time. Your school is finished faster — ready for use days, weeks sooner.

And Rilco members have the warmth and beauty that only wood offers — complete design flexibility — help make the school a community showplace. Practical and economical wherever clear-span construction is desired — gymnasium, auditorium, classroom.

Even more important is the fire safety afforded . . . Rilco laminated members are slow to burn — won't collapse under high temperatures — allow time to save structure and contents . . . *musts* for school construction.

Safety, economy, beauty — Rilco laminated members bring all three to your new school. For more information about how Rilco can help you and your architect build *bigger* and *better* for *less*, contact your nearest Rilco office.

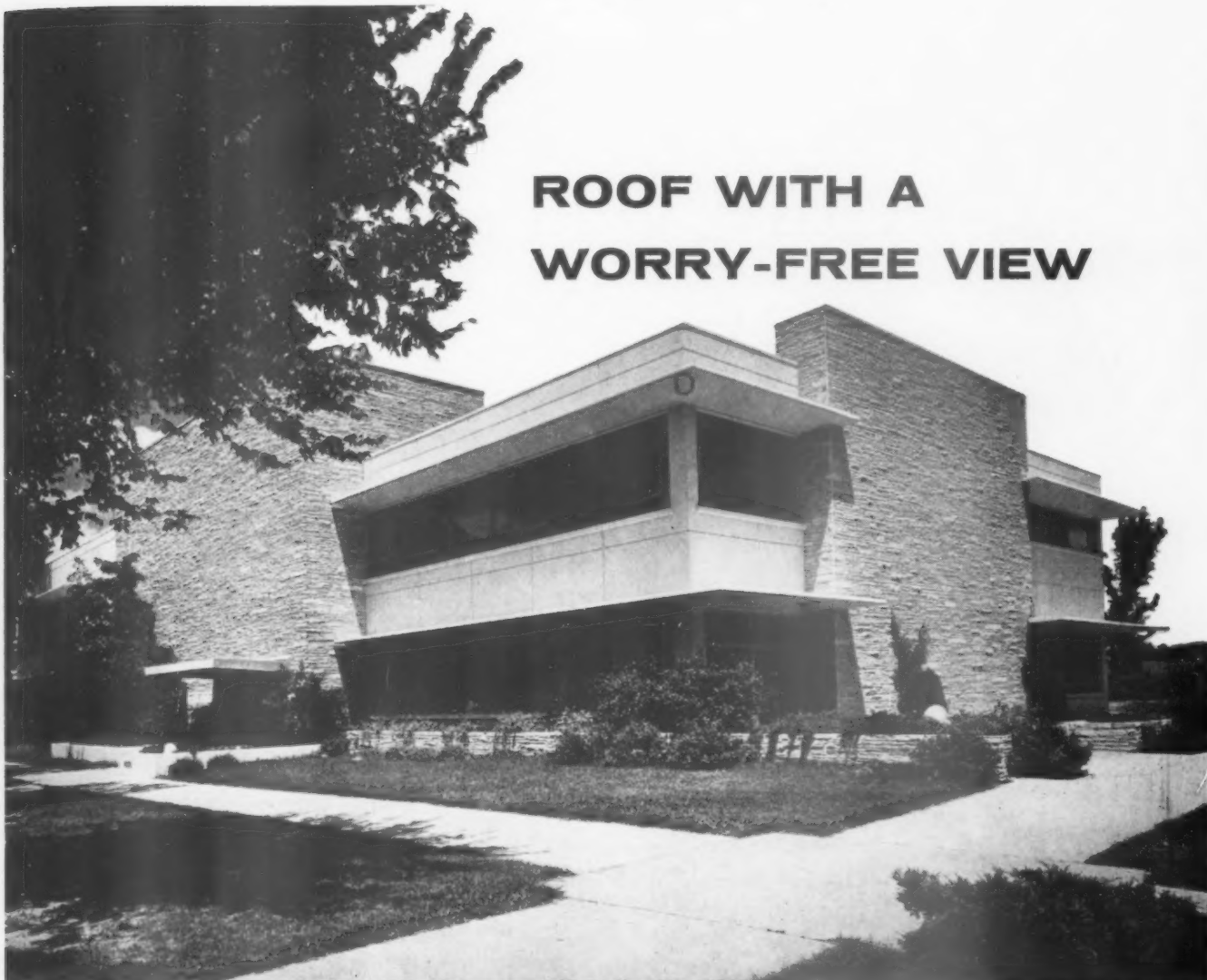
DISTRICT OFFICES: Newark, N. J.; Fort Wayne, Ind.; Tacoma, Wash.

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Allied Chemical Corporation

40 Rector Street, New York 6, New York

ROOF WITH A WORRY-FREE VIEW



ARCHITECT: ATKINSON & MURRAY, TULSA; ROOFER: EMPIRE ROOFING & INSULATION COMPANY, TULSA

This is the beautiful new Student Activities Building of the University of Oklahoma. Its builders chose the best in all-weather protection—a Barrett Roof.

They must have known that a Barrett Built-Up Roof—of highest quality pitch and tarred felt topped with a protective surface of slag, gravel or promenade tile—gives longest service with least maintenance.

Roof construction is a specialized job requiring careful attention to details. The Barrett Specification* Roof is consistently flawless because it's constructed only with Barrett-made materials . . . inspected by Barrett Inspectors . . . applied by Barrett Approved Roofers. This roof is guaranteed by bond against leaks for up to 20 years. But in most cases, it remains sound and serviceable long after the bond has expired.

Whether you are pondering a roof for a new school, or reroofing, call on the most qualified expert in your area—your Barrett Roofer. Or contact us direct.

*Reg. U. S. Pat. Off.



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THE GREATEST NAME IN ROOFING

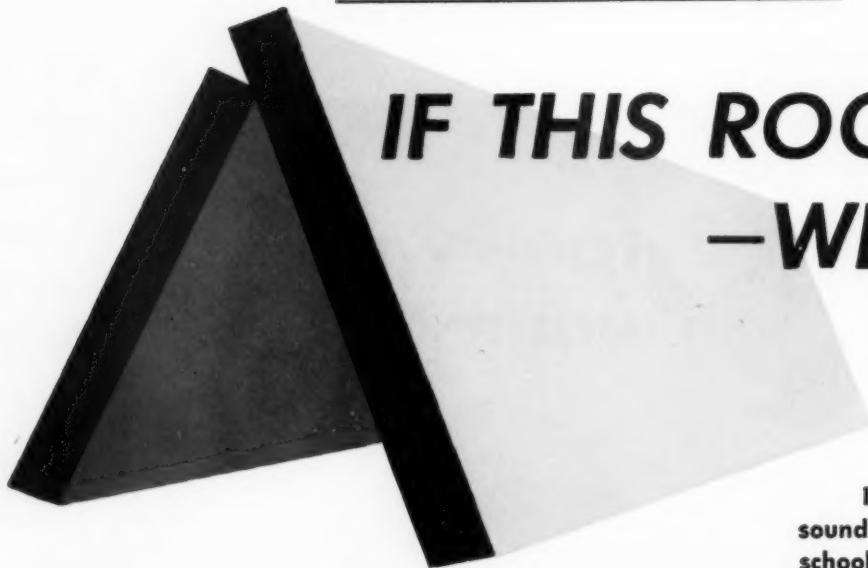


AMERICAN SCHOOL AND UNIVERSITY—1958-59

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It fits, all right—fits more sound-conditioned, insulated schoolrooms into your building budget—because the roof deck, ceiling, and insulation are

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Insulrock gives you better protection and better coverage in classroom buildings, gymnasiums, auditoriums, field houses—all your enclosed structures.



AMERICAN SCHOOL AND UNIVERSITY—1958-59

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Insulrock is the all-in-one building material that efficiently and economically does the job of three:

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Insulrock handles easily, lays down fast on steel, wood, or concrete framing, protects against all weather conditions and fire hazards, and is impervious to termites and fungi.

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Free ceilings, actually, because you leave Insulrock's handsome off-white finish exposed so millions of tiny air pockets absorb up to 80% of ceiling-reflected noises.

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Insulrock saves on your heating and air conditioning costs because of its high thermal insulation.



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Tough, strong Insulrock building slabs are made by pressure-bonding chemically-treated fibers with portland cement under carefully controlled conditions.

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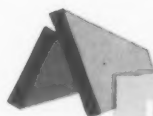
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Insulrock.

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Here's Why —

Tectum is a versatile deck material that when applied over lightweight framing members forms both deck and finished ceiling without need of further materials or labor cost. Tectum's top surface is covered at the factory with a ply of 15 lb. roof felt ready for the application of built-up roofing. The exposed side within the building makes an ideal ceiling that is light reflective and attractively textured by the long strand wood fibers that make up the material. And think about these truly bonus features: Tectum is acoustical, fire resistant, insulating and termite proof. Tectum is light and easily worked with ordinary tools. Schoolrooms are effectively sound conditioned—a boon to both student and teacher, resulting in more efficient study conditions without extra cost. Send today for complete information, Bulletin A104, and find out how Tectum can make better schools possible in your community. Also, ask to see "The Race Against Time," Tectum's full color strip film showing five new schools.

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Quincy, Mass.

ARCHITECT Earl M. Harvey and
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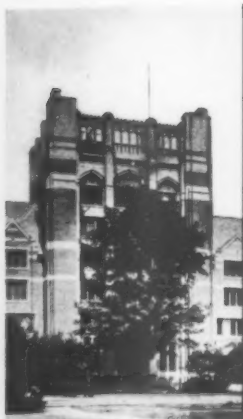
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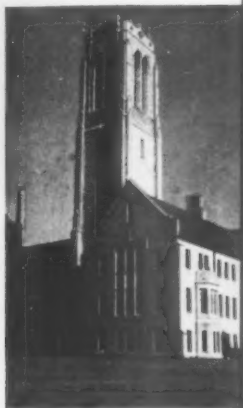
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Subsidiary SUN CHEMICAL CORP.

Brick masonry disintegration due to water-penetration through cracks and voids.

1



Open joints in limestone due to failure to repoint, permit further deterioration.

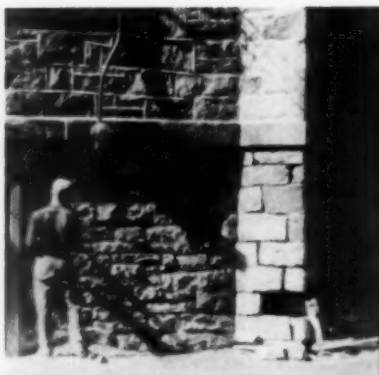
2



is this the condition of your building?

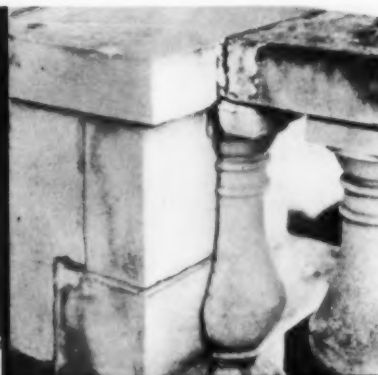
Random stone masonry disintegrated due to lack of proper maintenance.

3



Cast stone masonry in neglected condition. Restoration and pointing needed.

4



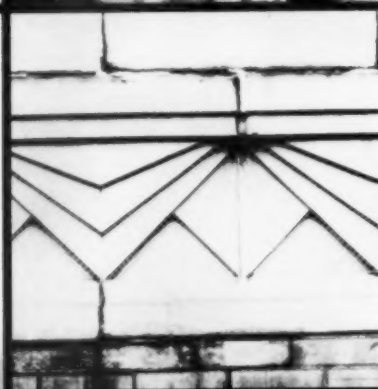
Terra-cotta cornice disintegrated and spalled. In hazardous condition.

5



Terra-cotta trim and brick masonry disintegrated due to lack of pointing in time.

6



Valuable granite facing ruined by previous improper pointing methods.

7



Defective caulking allows entrance of moisture to ruin interior decoration.

8



TYPICAL HORN JOBS



Ohio



Louisiana



Oklahoma

*Final treatment
of brick masonry
after Horn
vibro-caisson
grouting process.*

1



*Complete
restoration of
fine random
stone masonry
by skilled mechanics.*

2



horn methods we use to assure results

*Repointing
prepared joints
with
J-O-I-N-T-E-X
balanced
repointing
mortar.*

3



*Our skilled crews
use modern
equipment for
restoration of
stone masonry.*

4



*Mechanical saws
used wherever
possible, to
obtain clean
sharp lines.*

5



*Proper caulking
is an important
part of each
waterproofing
job we do.*

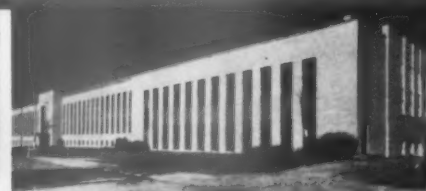
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Minnesota

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EVERY
STATE**

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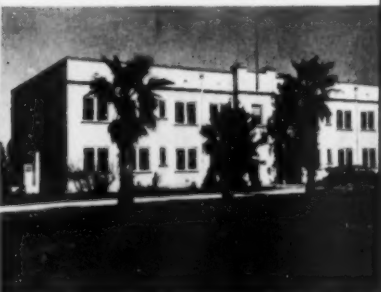
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Minnesota



Pennsylvania



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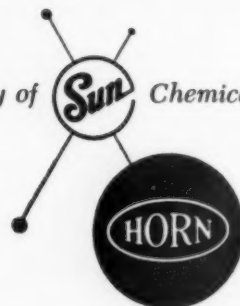
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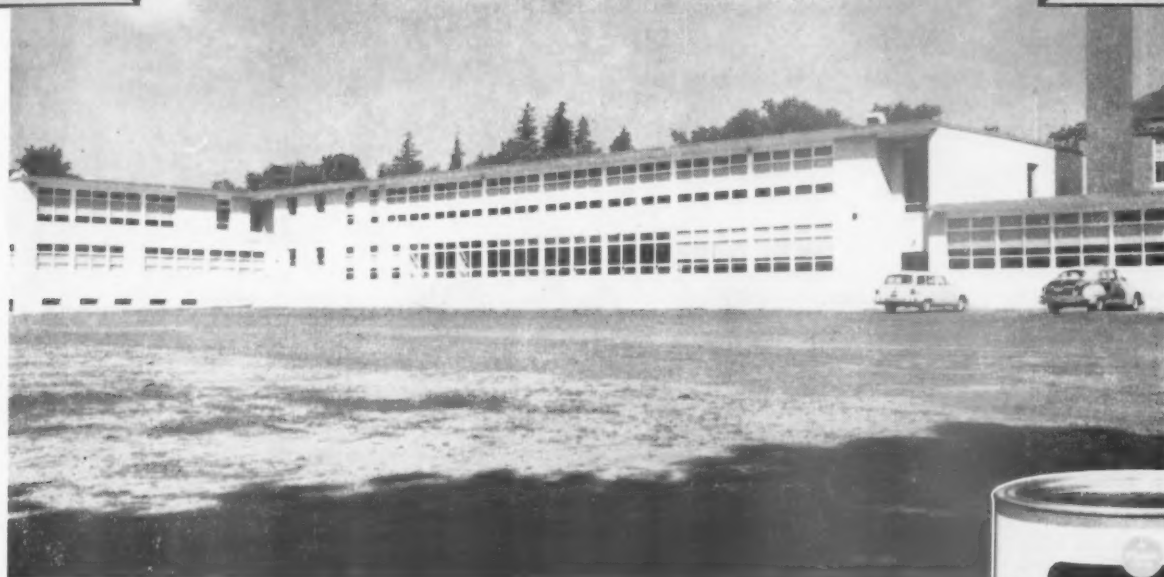
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The THORO System

Protects masonry against water

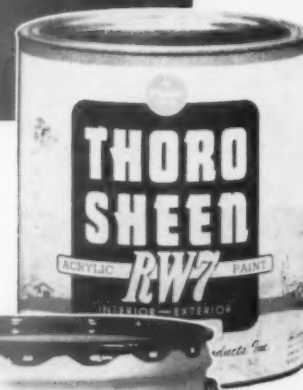


Masonry Protection can be beautiful

Concrete block can be beautiful. Simplicity of structure of Exeter High School, Exeter, New Hampshire, is greatly enhanced by two coats of THOROSHEEN RW7, an acrylic resin paint. The outstanding qualities of THOROSHEEN RW7 are fast drying, ease of application, excellent color retention, good coverage, great resistance to the elements; and breathes as all good masonry paints should, thus assuring excellent bond. For complete information, see color card 32-F. THOROSHEEN RW7 can be applied to interior plastered surfaces, odor free and dries in 30 minutes.



Workmen are shown applying THOROSHEEN RW7 over a concrete block structure, the surface of which has been previously sealed with base coat of THOROSEAL. THOROSEAL has filled the pores of the masonry surface, giving complete water protection.



The following pages show a few of The THORO System products and their applications to various masonry surfaces. Of the 18 products comprising The THORO System line, examples of substantial jobs, done with a few of these materials, are shown. Send for brochure "How To Do It" and request specific information on your problem.

Standard Dry Wall Products, Inc.
NEW EAGLE, PA. CENTERVILLE, IND.

Get our brochure
"HOW TO DO IT"



A. I. A. FILE NUMBERS

7-A-3, 7-B-1, 7-B-2,
3-B-2, 3-L-7, (NN)
25-B-30, 25-B-26, 25-B-31



Washington High School,
New Britain,
Connecticut.

New Look, Longer Life

Washington High School
Eliminates Water Problems



Defective mortar joints and porous brick were permitting deterioration of exterior surface, due to water penetration. Economical treatment of this building, by two-coat application of STANDARD GRAY THOROSEAL, made costly repointing unnecessary. The THOROSEAL completely filled and sealed the surface, giving building an improved appearance.

Thorite and Thoroseal restored this masonry structure to original beauty

Another example of rehabilitating badly spalled and deteriorated masonry surface, accomplished by the use of The THORO System products, THORITE and THOROSEAL.



Before Rehabilitation

Stone over windows, lintels, sills and badly spalled surface, which permitted extensive weather damage to interior, required complete restoration job.

After

All exterior surfaces were cleaned of loose masonry and foreign materials so that sound masonry was available for restoration. THORITE nonshrink, nonslump, 20-minute set patching mortar was troweled over defective areas, to level of surrounding surfaces. Lintels and sills were rebuilt with THORITE by trowel without forms. The entire surface was then given two brush coats of THOROSEAL, eliminating any future destruction of masonry due to water penetration.



Photo shows small wall area of former Champlain Hotel, Plattsburgh, New York, after restoration. Now a beautiful Catholic Seminary.

Standard Dry Wall Products, Inc.
NEW EAGLE, PA. CENTERVILLE, IND.

85.51.4

Get our brochure
"HOW TO DO IT"



How D-J Grouting Mortar

Protects the masonry structure
(inside-outside) of your building



Defective mortar joints are responsible for extensive damage to interior and exterior of structure, such as plaster, woodwork, electrical wiring, etc.

It is wise to periodically inspect exterior masonry for any construction faults or deterioration which would permit further damage. Correction of masonry defects, if done shortly after they develop, can save costly restoration expense caused by delay.

←

To the left, note application procedure to renovate seepage through ceramic tile wall. Defective mortar joints were raked, all loose mortar removed, then re-pointed by scrubbing the entire surface with D-J Grouting Mortar. After D-J Grouting Mortar had partially set, surface was wiped clean with damp burlap and sponge, leaving completely sealed surface.

→

Exterior brick wall, badly weathered and deteriorated, required over-all sealing as brick and mortar joints were permitting excessive water penetration. This job was also done with D-J Grouting Mortar. To further develop water repellency, THOROCLEAR 777, a silicone base of high silicone solids content, which more than meets Federal Specifications, was applied in sufficient quantity to assure complete water repellency.



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"HOW TO DO IT"



A THORO SYSTEM PRODUCT

Inside, Outside, all around the school **The Thoro System has the** *Right Answer* to all masonry problems



To enhance the interior appearance of this ceramic tile swimming pool building and sanitize the block and ceiling surfaces, heavy brush coat of THORO-SEAL, followed by finish coat of SNOW WHITE QUICKSEAL, was applied.

• • •

To eliminate constant masonry repairs, Xavier University, in Cincinnati, Ohio, decided to do an over-all repair job on their concrete stadium, with their own maintenance crew. Complete removal of

loose and broken concrete, followed by thorough cleaning, was done. The areas that were chipped and broken were prepared for patching. THORITE nonshrink, nonslump, 20-minute set patching mortar was troweled into these areas. No forms were required. The entire stadium was then given two heavy brush coats of THOROSEAL to protect it against any further deterioration.



18 THORO System Products *for your every masonry problem*

WATERPLUG Hydraulic Cement patches cracks and stops water instantly. Ask for Circular No. 14.

THOROSEAL seals the surface and keeps water out of masonry wall. Ask for Circular No. 16.

QUICKSEAL finish coat, in many beautiful shades, for application over THOROSEAL base. Ask for Circular No. 15.

THORITE nonshrink, nonslump 20-minute set patching mortar. Ask for Circular No. 20.

DRYJOINT nonshrink pointing mortar for protection against water penetration. Ask for Circular No. 8.

THOROSHEEN RW7 Acrylic Paint, colorful, washable, fast-drying finish coat for inside, outside masonry. Ask for Circular No. 32-E.

THOROLOK Blue Star for beautifying masonry floors, in colors. Ask for Circular No. 32-C.

THOROLOK Red Star for sealing asbestos shingles. Ask for Circular No. 32-C.

PEM Cement Paint for decoration of masonry walls, in 12 pastel shades. Ask for Circular No. 39.

THOROCLEAR (Special), clear silicone water repellent, for protection of light-colored masonry limestone, concrete. Ask for Circular No. 30.

THOROCLEAR 777 (Solvent Type—5% solid silicone) transparent sealer for colored face brick, clay, tile, shingles. Ask for Circular No. 31.

VABAR vapor barrier and plaster bond for gypsum plaster. Ask for Circular No. 25.

P & W Floor Hardener, chemical for hardening concrete. Ask for Circular No. 28.

THOROSEAL Foundation Coating to fill and seal exterior below-grade masonry. Ask for Circular No. 24.

THOROSET Nonshrink Grouting Compound for anchoring heavy steel columns to concrete. Ask for instruction sheet.

D-J Grouting Mortar for grouting of masonry surfaces, stone, brick, tile. Ask for Circular No. 9.

THOROLITH Integral Pozzolan Compound for adding strength and water resistance to concrete. Ask for instruction sheet.

THORO BOND Liquid Welding Compound for bonding of plaster, stucco, stone, wood, concrete, etc. Ask for Circular No. 48.

Standard Dry Wall Products, Inc.
NEW EAGLE, PA. CENTERVILLE, IND.

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ACCURATE METAL WEATHER STRIP CO., INC.

DISTRIBUTORS IN PRINCIPAL CITIES THROUGHOUT THE UNITED STATES

Efficient Weatherstripping for all types of wood and metal windows and doors.

Various types and sizes of "ACCURATE" METAL WEATHER STRIPS places us in an ideal position to cooperate with school Architects and Executives in meeting their requirements.

TYPES AND QUALITY OF MATERIALS: Zinc and Bronze materials are ordinarily used depending upon atmospheric conditions.

THE COMPANY: The "ACCURATE" METAL WEATHER STRIP COMPANY has been manufacturing metal weather-strips for over 50 years and today it is outstanding in the industry.



MANUFACTURING FACILITIES: Owing to unusually efficient manufacturing facilities, personal supervision and complete control of every step in fabrication, purchasers of "ACCURATE" METAL WEATHER STRIPS are assured of prompt service and dependable workmanship.

ARCHITECTURAL SERVICE: Satisfactory results from weather strip depends upon three major factors:— (1) quality of equipment, (2) selection of equipment designed to meet the individual conditions and requirements, and (3) proper installation. Where time permits, we strongly urge that you permit us to submit complete and specific recommendations.

"ACCURATE" SERIES NO. 30 EQUIPMENT RECOMMENDED FOR SCHOOL WINDOWS

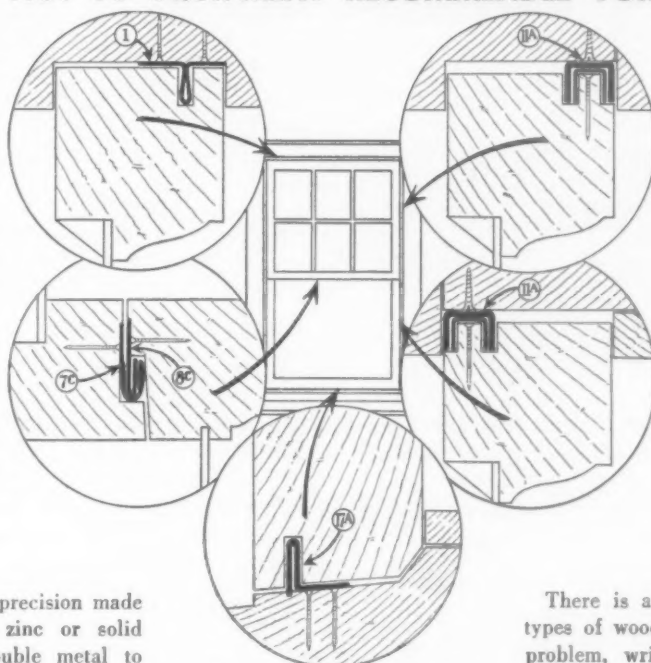
Heavy Double Hung School Windows Require Substantial Weather Strips

Large double hung windows such as those used in schools require a weather strip designed especially for this type and size of window. It is a waste of money to specify a light weight strip which is not designed for this type of heavy-duty service.

"Accurate" Series No. 30 Equipment

This series is designed especially for schools. It will stand up and take considerable abuse due to its shape and the heavy gauge metal used in its manufacture.

All parts of the equipment are precision made of heavy gauge special temper zinc or solid bronze as specified. It has a double metal to metal channel slide on the vertical edges of



SERIES NO. 30 EQUIPMENT

sash. The channel on the pulley stile is a heavy 16-gauge channel in which the sash channel slides. As the channels operate metal to metal, they have to operate perfectly as there is no chance for the mechanic to install them in any other way.

It will always hold its contact if applied with screws and not nails.

The narrow channel makes it possible to get to the sash weights easily. If it is necessary to remove the channel, it is rigid enough to hold its shape and can be replaced in the same position by using the same screw holes.

For Other Types of Windows

There is an "Accurate" weather strip for all types of wood or metal windows. If you have a problem, write to us for the proper weather strip for the condition.

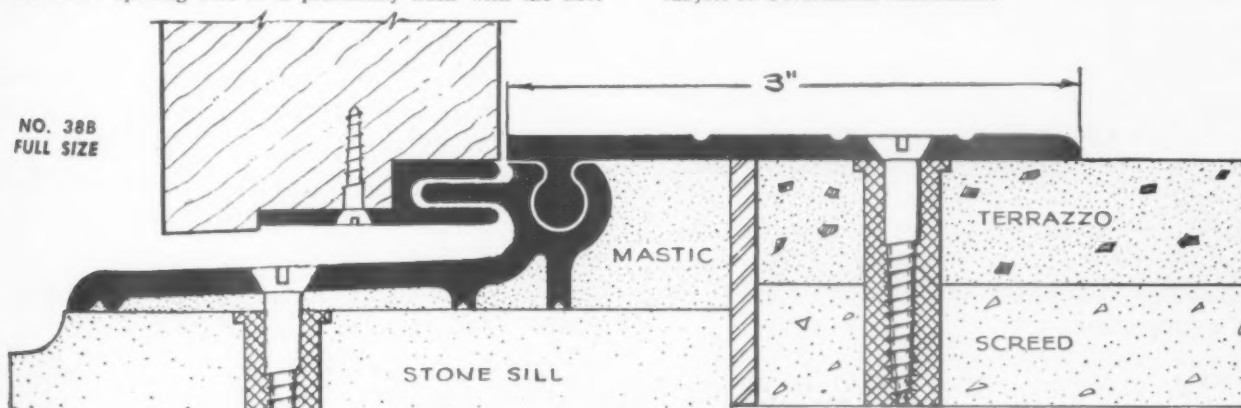
ONE OF MANY TYPES OF "ACCURATE" EXTRUDED BRONZE SADDLES

"Accurate" also specializes in extruded bronze door saddles. Each saddle is designed for a specific condition and a saddle can be selected for practically any door condition.

"Accurate" No. 38B extruded bronze saddle is designed for exterior doors opening out. It is practically flush with the floor

and its flat top surface does not interfere with the use of panic bolts. This saddle is also available in aluminum.

A complete series of saddles for use with exterior sliding doors will be found in our catalog in Sweet's. Availability of all metals subject to Government restrictions.



TRUSSBILT

DIVISION OF SIEMS BROS., INC.

2575 Como Avenue, St. Paul 8, Minnesota

TRUSSBILT

TRUSSCORE FLUSH DOORS HOLLOW METAL BUCKS FRAMES AND TRIM

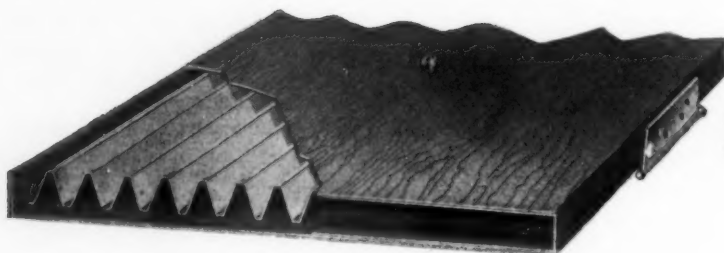


Illustration showing construction
of "TRUSSCORE" Flush Steel Door

This Trademark is A



Guarantee of Quality

After 30 years, still one of the most outstanding improvements in construction of flush steel doors.

WE SPECIALIZE IN REPLACEMENT ENTRANCES OF DURABLE HOLLOW METAL STEEL CONSTRUCTION.

A special message to those interested in quality school construction.

Thirty years ago Trussbilt adapted the principle of rigid truss construction to the manufacture of hollow metal doors. Special assembly and welding equipment was designed to meet exacting manufacturing specifications. The result was an entirely new method of hollow metal construction which produced a door of unusual strength and rigidity. We are proud that today, thirty years later, Trussbilt continuous truss core construction still remains an outstanding feature in the hollow metal door industry.

The fine appearance of Trussbilt flush steel doors combined with their rugged strength and fire resistance, make them especially suitable for fine schools, universities, office buildings, hotels, hospitals and public buildings where hard usage can be expected. The fact that all our products are custom made for each individual project permits considerable flexibility in design so important today.

The designing and manufacturing personnel is composed of men long identified with the Hollow Metal Industry. Any hollow metal problem can be solved in a practical way to attain the most exacting requirements.

Trussbilt facilities are the most modern and extensive of their particular kind, which makes possible the fabrication of a complete line of hollow metal steel doors, frames, window walls and trim for all types of quality buildings.

Ample capital and experienced executives insure the company's stability and the proper execution of any contract respective of size.

Trussbilt products are guaranteed to be the highest standard of workmanship, material and quality possible.

Complete Catalog will be mailed upon request, or is available in Sweets.

All Products Custom Made

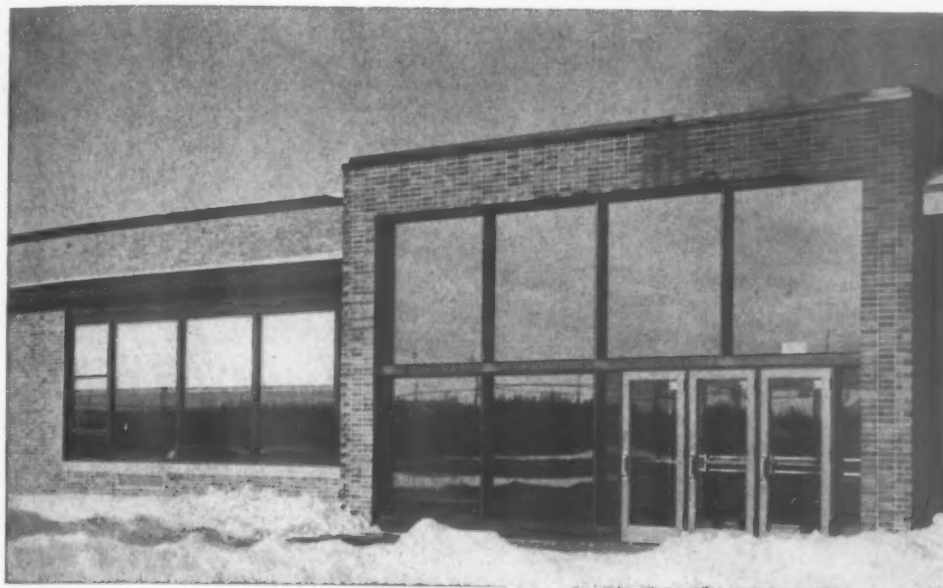
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EXTERIOR

HOLLOW METAL

GLAZED UNITS

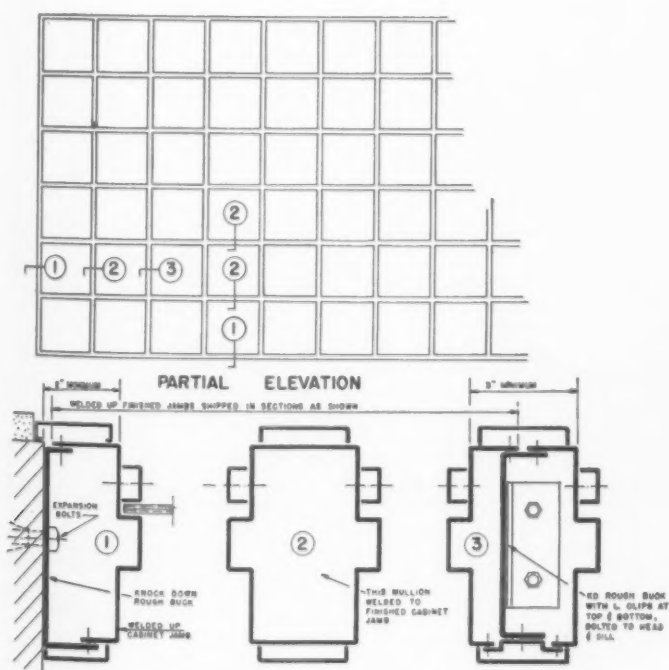


Main Entrance, 24' wide x 13'-6" high, at Public School, Babbitt, Minnesota. Arthur E. Rowe & Associates, Architect, Lovering-Sweitzer Const., Co., Contractor.

Illustrated on this page are large Hollow Metal openings which can be made to suit the requirements of any building. The details shown are designed for the use of formed metal sub frames; however, the finished jambs can also be adapted to the use of structural sub frames. The selection of sub frames depends entirely on the size of the openings.

The finished jambs are designed so they can be installed in welded up sections thus eliminating the field assembly of many parts and pieces required for knocked down construction.

We invite your inquiries and, upon request, we can offer our Engineering service and recommendations. We can also furnish a list of typical installations in your area.



Stair hall fenestration 38'-6" high and 10'-0" wide in Engineering Building, Gonzaga University, Spokane, Washington. John W. Maloney, Architect. Gus J. Bouten Construction Company, Contractor.

ESTABLISHED
1828

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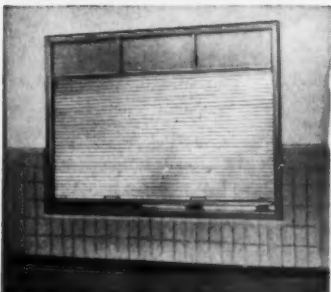
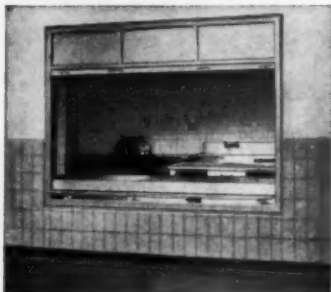
CORNELL IRON WORKS, INC.

36th Avenue at 12th Street, Long Island City 6, N. Y.

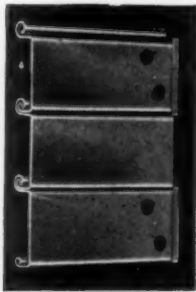
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Telephone
Stillwell 4-3880-1-2-3



CORNELL ROLLING SHUTTERS.
Recommended for kitchens, lunch
counters, cabinets, school stores,
school bank, checkroom, etc.



Small 1 1/4" FLATSLAT
—for FLUSH SURFACE
Doors, Shutters etc.
of average width

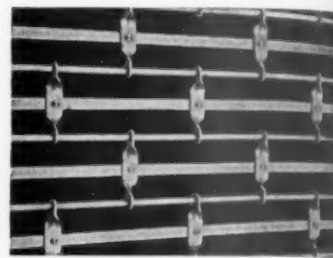
PRODUCTS

ROLLING GRILLES and GATES in steel and other metals; SLIDING GRILLES in steel and aluminum; ROLLING DOORS and SHUTTERS in steel, other metals and wood. Underwriter's labeled ROLLING STEEL FIRE DOORS, also approved by Factory Mutuals, et al; ESCALATOR FIRE ENCLOSURES; MOTOR OPERATORS. Makers of fine doors since 1828.

METALS USED

In addition to Galvanized Steel, Rolling Doors (except for fire protection) and Rolling Grilles can be made in Aluminum, Bronze, Nickel-Bronze or Stainless Steel.

SEND FOR FREE CATALOG



Close-up view of ROLLING
GRILLE curtain, CORNELL
Standard Butterfly Type

CORNELL ROLLING DOORS and ROLLING GRILLES

Rolling Doors are made up of interlocking metal slats running in vertical metal side guides, flexible to coil. Steel curtains are hot galvanized.

Rolling Shutters for counters, etc. are made of a special design 1 1/4" flatslat giving a flush surface on the outside.

Wood slats strung on metal cables form the curtain of wood rolling doors.

Rolling Fire Doors are labeled by Underwriter's Laboratories, Inc., for fire walls, etc., and carry a 3 hour test label. Cornell Iron Works, Inc., are the originators of the Rolling Grille in America. **Cornell Rolling Grilles** operate like rolling doors, but they do not block light, air, or vision. They have been widely accepted for school corridors, etc. Can be completely concealed when open. Patented Locking Device for Rolling Grilles is workable from either side.

ROLLING GRILLE SPECIFICATIONS

Rolling Grilles shall be Butterfly Type. The grille curtains shall be made of 5/16" round hard drawn galvanized steel bars running continuous horizontally from jamb to jamb and locked into rolled steel vertical side guides. The horizontal bars are flexibly connected by strong vertical metal links, riveted to galvanized flat bars, which permit the entire grille to coil overhead. No openings in the grille shall be large enough to pass a 1/4" diameter ball through. The ends of the bars shall be provided with straight continuous malleable, or steel, endlinks of self-aligning construction, each link locking in the lips of the side guide to prevent pulling out of the grille.

RECOMMENDED FINISH SPECIFICATIONS

ALL GALVANIZED STEEL GRILLES shall be sprayed with aluminum paint, or bronze paint.

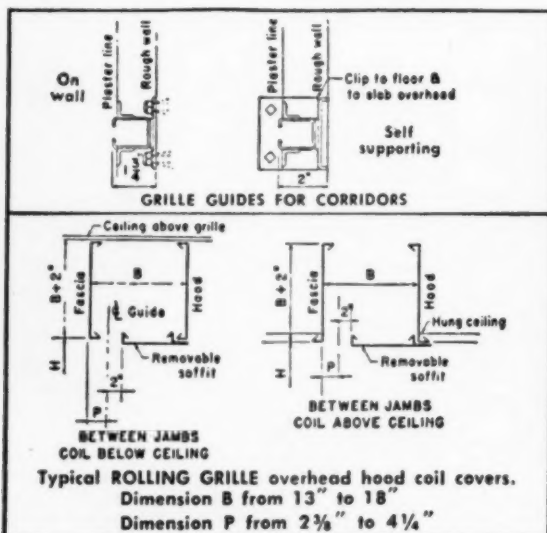
ALUMINUM GRILLES shall be etched to a silvery satin finish followed by Anodizing or Alumilating. This finish removes tool marks and surface imperfections, and stops oxidation with a hardened surface easily maintained. This finish can also be furnished in color. Where appearance is not a prime consideration a more economical dull mill finish is available. If the material is exposed to weather, or if it is important to preserve the lustre of the finish, anodizing or alumilating is a necessity. This does not affect the texture of the finish. It is necessary to use compatible alloys to get an even tone.

STAINLESS STEEL GRILLES—All installations—All metal shall be mechanically ground and polished to a "No. 4" satin finish.

BRONZE GRILLES—All metal shall be mechanically buffed to a warm gold finish and lacquered.



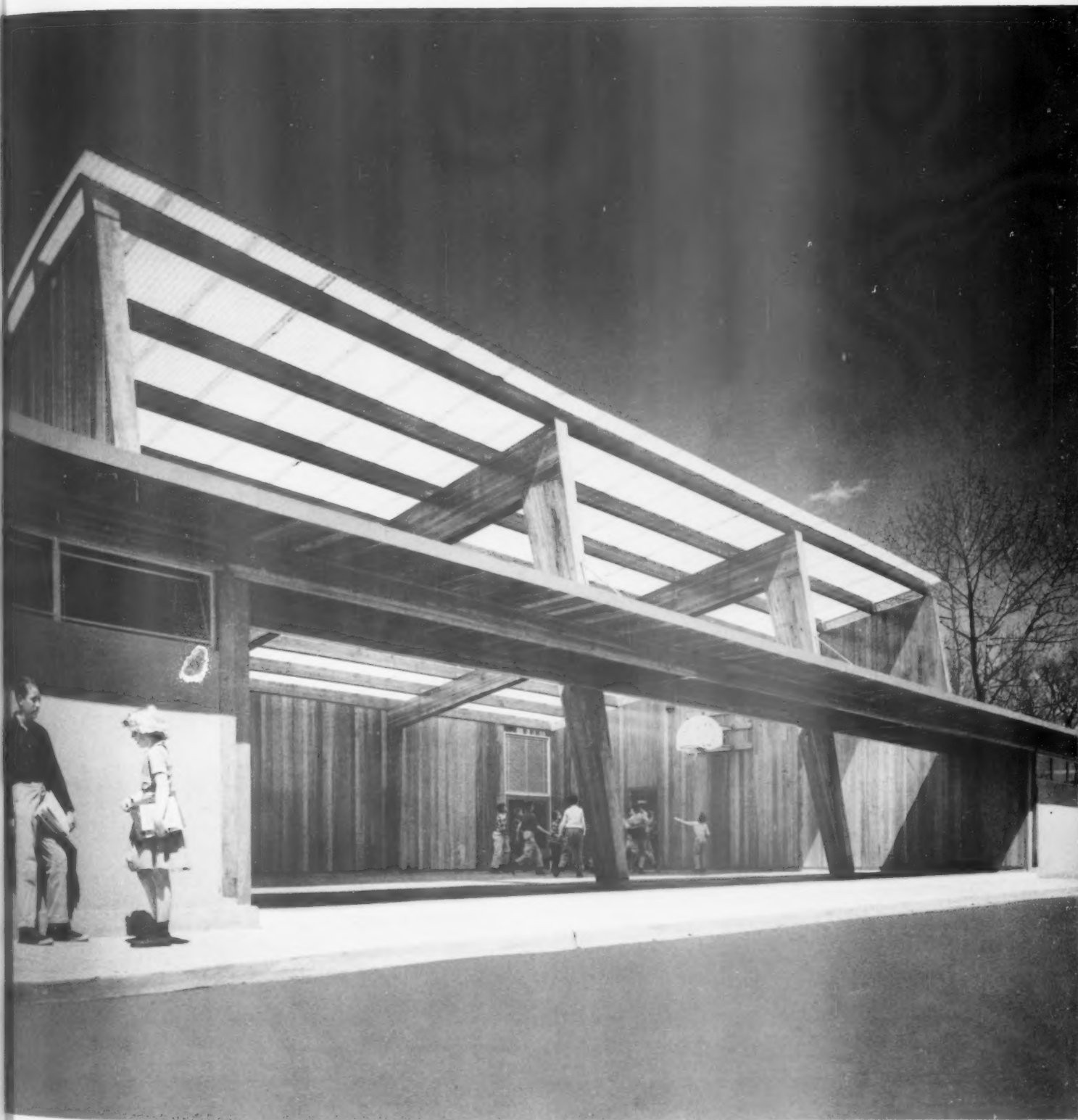
DOUBLE FIRE DOORS BETWEEN JAMBS,
(shown partially closed)



CORNELL ROLLING GRILLE in school
corridor. Side guides and overhead
coil are concealed in jambs and ceiling

Alsynite
FIBERGLASS PANELS

For Schools



economical • shatterproof • minimum maintenance



Miracle material for modern schools

Liberal use of Alsynite translucent fiberglass panels for daylighting school buildings is sure to win the praise of taxpayers, school boards, administrators, teachers and pupils. That's because only genuine Alsynite offers the advantages of Chemiglaze, for a surface that reduces maintenance to a minimum; and Filtron 25, to effectively control heat and light transmission.

Alsynite passes soft, diffused light to work areas. This protects the eyesight of teachers and pupils and saves electricity.

Alsynite will not crack, craze, shatter, rot or mildew.

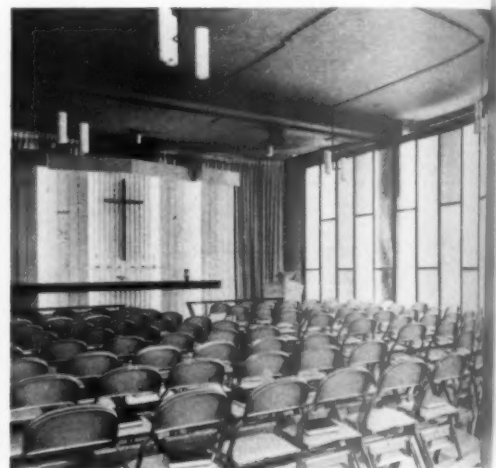
The built-in colors never require painting.



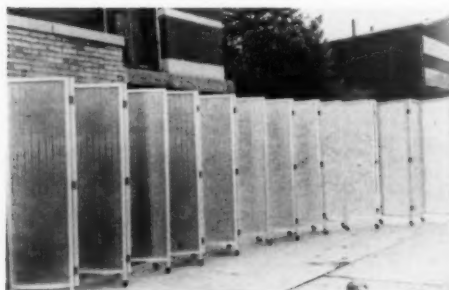
Play area coverings of Alsynite panels allow the children to exercise even on rainy days. Provides shade on



Fences of Alsynite shield the students from distracting influences on the street, improve concentration in the classroom. An Alsynite fence enhances the beauty of the school property and the panels require no paint.



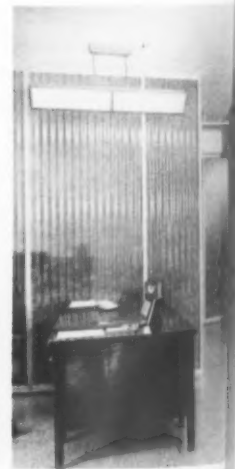
School chapels capture a "cathedral" mood. Translucent Alsynite panels are used for windows. Built-in colors pass a soft, beautiful light to the interior.



Screens made of Alsynite are lightweight and maintenance-free. This folding screen is made of hinged panels on casters.



Doors of Alsynite are strikingly beautiful. They offer strength without weight.



Wall partitions of Alsynite translucent fiberglass panels look to administration offices.

Pick the right type for your use...

Daylighting Panels — for applications where maximum light is required. Available in various corrugations and flat. Maximum width: 40 in. Maximum length: 12 ft. Standard colors: White, Clear, Lite Green and Lite Blue. Chemiglazed for superior resistance to weathering.

Low Transmission Panels — for applications where radiant heat and glare can be a problem, such as awnings. Available in corrugated and Steplap® panels in a full range of decorator colors. Chemiglazed surface and exclusive heat blocking feature, Filtron 25, which reduces radiant heat transmission to as low as 20% of that transmitted by ordinary fiberglass panels.



Gyms may be flooded with soft, diffused daylight by paneling sidewalls with Alsynite. The strong, shatterproof panels won't break.



Clerestory daylighting of gymnasiums and auditoriums with Alsynite provides glare-free light.



Teachers' offices and offices for student guidance and counseling gain privacy from Alsynite panels.



Library ceilings of Alsynite provide abundant daylight at no cost. Here, louvers above skylight automatically maintain uniform light.



Arenas and field houses with Alsynite skylights require no lights during the day.

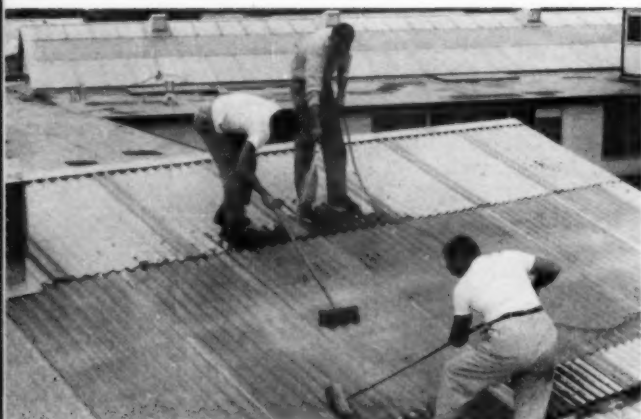


Awnings constructed of Alsynite keep out the hot rays of the sun, keep interiors several degrees cooler. This design can't trap heat.



Canopies over entrances add to the beauty of the property and afford protection from the elements.

maintenance savings ...a case history



After four years' service, during a school vacation, teachers thoroughly brushed the Alsynite skylights with detergent, then rinsed them with a hose.



The Alsynite panels were then sprayed with Alsynite Finish Lacquer with a spray gun. This restored the original high gloss and translucence.

Consult your architect

... he can show you how Alsynite, the original translucent fiberglass panel, can benefit your schools. Distributors and dealers in principle cities in the United States. Listed in Sweet's Catalog.

The Foster Junior-Senior High School in Seattle, Washington, which was designed by Architect Ralph H. Burkhard, A.I.A., with Alsynite daylighting, won national recognition the year it was built. Light enters through Alsynite skylights in the roof and is diffused by Alsynite ceilings in the classrooms. To compensate for changing outside light, ganged louvers under the skylights are automatically controlled by photoelectric cells which activate electric motors. Brightness is quite uniform throughout the rooms and throughout the day.

The satisfaction that the South Central Public School System has felt with the maintenance required on this application is expressed in the letter below. The actual maintenance required after four years' service is shown in the photos at the left.

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KING COUNTY SCHOOL DISTRICT NO. 405
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August 23, 1956

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4101 SE 15TH ST.
SEATTLE 98, WASHINGTON
CENTRAL SCHOOL
13812 81ST AVE. SE.
SEATTLE 98, WASHINGTON

E. M. Dowling
Alsynite Co. of America
4654 de Soto Street
San Diego 9, California

Dear Mr. Dowling:

The alsynite installation at the Foster Junior-Senior High School has given complete satisfaction through four years of service. No maintenance whatsoever had been required until we began the current restoration project. Now, by an easy process of washing and re-coating the surface, we have restored the high light transmission and glossy surface of the original installation. This extremely low maintenance history compares very favorably with the constant cleaning and replacement required by conventional glazing methods.

Sincerely yours,

Frank D. Horsfall
Frank D. Horsfall
Business Manager

FDH:mg



American's GLASS PRODUCTS for school glazing

(DAYLIGHTING WITH A PURPOSE)



Heathcote Elementary School, Scarsdale, N. Y. Architects: Perkins & Will.

DAYLIGHTING FOR SCHOOLS

In schools, good illumination is as important as good instructors. Extensive use of glass, providing natural daylighting, is the most effective way of obtaining good lighting. Also, large glass areas are a functional part of today's modern program of education; they create a good environment for learning. (See page 4: "Goals for Proper Daylighting . . .")

Advantages to Teaching and Learning

1. Adequate quality daylighting protects against eye-strain and fatigue.
2. Releases body tensions caused by poor illumination.
3. Creates restful atmosphere because there is no feeling of confinement.
4. Many studies can be observed in real life.
5. Rooms better adapted to teaching such classes as art, science, nature, etc.
6. Expands students' opportunity to develop new interests.
7. An "open type" class makes teachers more alert.
8. Visitors can observe students without disturbing the class.

GLASS — IDEAL BUILDING MATERIAL

Large glass areas provide the "contemporary" look so much admired in today's architecture, and permit the architect great freedom in design and expression. Glass walls are also less expensive than walls of other building materials, and require less maintenance.

Glass Selection

It is very important to select the right glass for your particular climatic conditions. If you desire maximum daylighting, use AMERICAN LUSTRAGLASS and LUSTRACRYSTAL; they will transmit more visible light than any other brand of glass. If you desire a more controlled daylighting, use AMERICAN LUSTRAGRAY—a neutral gray tint, glare reducing sheet glass. LUSTRAGRAY provides soft daylighting without sacrificing vision.

In most cases, a planned combination of these products will provide the balanced brightness desired in classrooms.

American LUSTRAGLASS and LUSTRACRYSTAL sheet glass for maximum daylighting

Clarity—transmits more visible light and ultraviolet rays.

Whiteness—absence of greenish cast gives most accurate color transmission.

Distortion—more distortion-free than other sheet glass.

Strength—a preferred structural glass.

Luster—fire polished, scratch resistant surface gives attractive, sparkling appearance.



Connoquenessing Joint Elementary School, Butler County, Pa.
Architects: The Warnick Company, Butler, Pa.

Right: Reflection tests show that AMERICAN LUSTRACRYSTAL is more distortion free than ordinary sheet glass. Therefore, LUSTRACRYSTAL can often be used in place of plate glass—resulting in substantial savings. (Minimum distortion is also an advantage of AMERICAN LUSTRAGLASS and of AMERICAN LUSTRAGRAY.)



Fig. 1 PLATE GLASS



Fig. 2 American LUSTRACRYSTAL

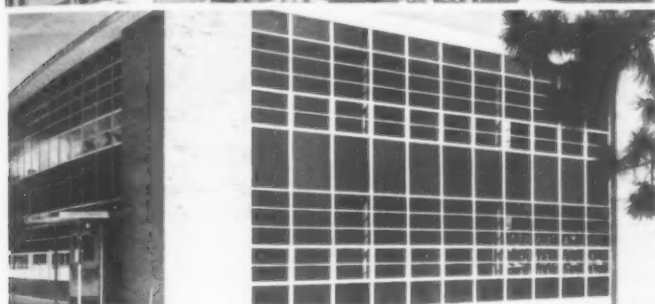


Fig. 3 COMPETITIVE BRAND OF HEAVY SHEET GLASS

LUSTRAGLASS: single and double strength. LUSTRACRYSTAL: $\frac{3}{16}$ ", $\frac{7}{32}$ ", $\frac{1}{4}$ " thickness.									
SPECIFICATIONS							SOLAR ENERGY TRANSMISSION*		
Strength Types	MAX. SIZE		THICKNESS — INCHES			Lbs. per Sq. Ft.	Ultraviolet	Average Daylight	Total Solar Radiation
	Width	Length	Min.	Av.	Max.				
Single	40"	50"	.087	.091	.095	1.183	77.8%	91.8%	90.6%
Double	60"	80"	.121	.125	.129	1.625	75.8%	91.7%	90.3%
$\frac{3}{16}$ "	76"	120"	.187	.193	.199	2.509	68.8%	91.2%	89.6%
$\frac{7}{32}$ "	76"	120"	.212	.218	.224	2.834	66.4%	91.1%	89.3%
$\frac{1}{4}$ "	76"	120"	.240	.248	.256	3.224	63.5%	90.9%	89.0%

*Average radiant energy at normal incidence, with energy distribution equivalent to air mass equal 2.

American LUSTRAGRAY glare reducing sheet glass for controlled daylighting



Two views of St. Petersburg Junior College, St. Petersburg, Fla.
Architects: C. Dale Dykema & Associates

AMERICAN LUSTRAGRAY—a neutral gray-tint glass—substantially reduces glare, thereby increasing comfort and efficiency. LUSTRAGRAY provides soft, controlled daylighting; it aids in balancing brightness between natural and artificial light, preventing eye-strain and fatigue.

As a bonus benefit, AMERICAN LUSTRAGRAY—while not classified as a heat absorbing glass—provides a significant reduction in the transmission of solar energy. Yet, no special installation handling is necessary.

The neutral gray tint of AMERICAN LUSTRAGRAY provides true color transmission, enhances interior color effects, and blends with all colors used on exterior of the building.

AMERICAN LUSTRAGRAY is economical, and under many conditions will make window blinds and shades optional.

AMERICAN LUSTRAGRAY is produced to the high quality standards characteristic of AMERICAN glass products. This unusually distortion free sheet glass has a fire-polished surface that provides added strength and sparkling luster.

LUSTRAGRAY										
SPECIFICATIONS							SOLAR ENERGY TRANSMISSION*			
Strength Types	MAX. SIZE		THICKNESS — INCHES			Lbs. per Sq. Ft.	Total Visible Light	Ultraviolet	Infra-red	Total Solar Radiation**
	Width	Length	Min.	Av.	Max.					
Double	60"	80"	.121	.125	.129	1.625	71.1%	68.4%	79.2%	75.5%
3/16"	72"	120"	.187	.193	.199	2.509	61.8%	63.7%	73.4%	68.9%
7/32"	72"	120"	.212	.218	.224	2.834	58.8%	63.0%	71.7%	66.3%
1/4"	72"	120"	.245	.253	.261	3.289	55.0%	61.0%	68.5%	63.1%

*Average radiant energy at normal incidence, with energy distribution equivalent to air mass equal 2.

**After reradiation, the total solar radiation transmission for 3/16" thick LUSTRAGRAY is 81.28%; for 7/32" thick is 80.02%; for 1/4" thick is 78.54%.

American SUPRATEST laminated safety glass

AMERICAN SUPRATEST is a high quality, laminated safety glass that has excellent school application. It is being used around doors in school entrances, cafeterias, and auditoriums for utmost safety. Windows glazed with AMERICAN SUPRATEST safety glass in gymnasiums, and in classrooms facing playground areas, are protected against breakage.

The high resistance of SUPRATEST to fracture has been well demonstrated in automobiles, buses, trucks, and street cars as well as in architectural uses such as schools and hospitals.

AMERICAN SUPRATEST is available in specially selected "A" quality clear sheets, or in special gray glass laminations that offer a variety of light transmissions.

GOALS FOR PROPER DAYLIGHTING

as established by the American Standard Practice for School Lighting

The following tables are for the guidance of architects, engineers, school people, and others interested in the conservation of children's vision and in the efficiency of pupils and teachers.

These tables are based on "Standard Practice"—a joint work of American Standards Association, Inc., Illuminating Engineering Society, and American Institute of Architects.

Minimum Lighting Levels	Min. Ft-c
Classrooms—on desks and chalkboards...	30
Study halls, lecture rooms, art rooms, offices, libraries, shops and laboratories.....	30
Drafting rooms, typing rooms and sewing rooms	50
Reception rooms, gymnasiums, etc.....	20
Auditoriums, cafeterias, locker rooms, wash-rooms, stairways, corridors.....	10
Open corridors and store rooms.....	5

A factor that has great importance in seeing-comfort is glare. High brightness ratios in the field of view lessen the ability to see minute detail or small degrees of

contrast. Glare can be either direct, due to a bright light source, or reflected from a shiny surface in the visual field.

Permissible Brightness Ratios to Eliminate Glare

Between the paper and desk top.....	1 to 1/3
Between the paper and surrounding dark areas, such as floors.....	1 to 1/10
Between the paper on the desk and surrounding light areas, such as ceilings....	1 to 10
Between windows and areas around them within the field of vision.....	20 to 1

To obtain maximum task lighting, it is important that walls, ceilings and all other reflecting surfaces be finished in light color with a flat or eggshell finish.

Recommended Reflectances

Ceilings	80-85%
Walls	50-60%
Desk and Table Tops.....	35-50%
Floors	15-30%
Blackboards	15-20%

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Sigma Alpha Epsilon House, West Lafayette, Ind.
Architect: Warren D. Marshall, W. Lafayette



Job Mercer County High School, Harrodsburg, Ky.
Architects: Meriwether, Marye and Associates



For Beauty...Economy...and Guaranteed Dependability

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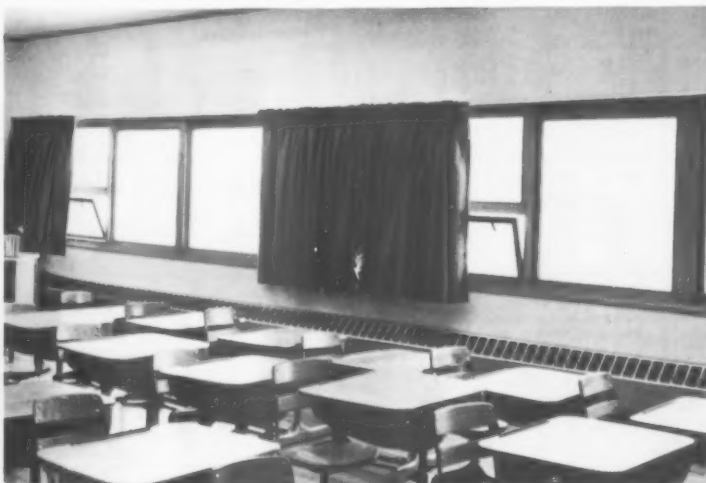
Awning Windows and Cabinets for Kitchens and Storage



Job Mercer County High School, Harrodsburg, Ky.
Architects: Meriwether, Marye and Associates



St. John Lutheran Grade School, Libby, Montana
Architects: Eddy, Carlson & James, Spokane, Wash.



Zion Lutheran School, Leigh, Neb.
Architect: Henry Beck, Leigh, Neb.



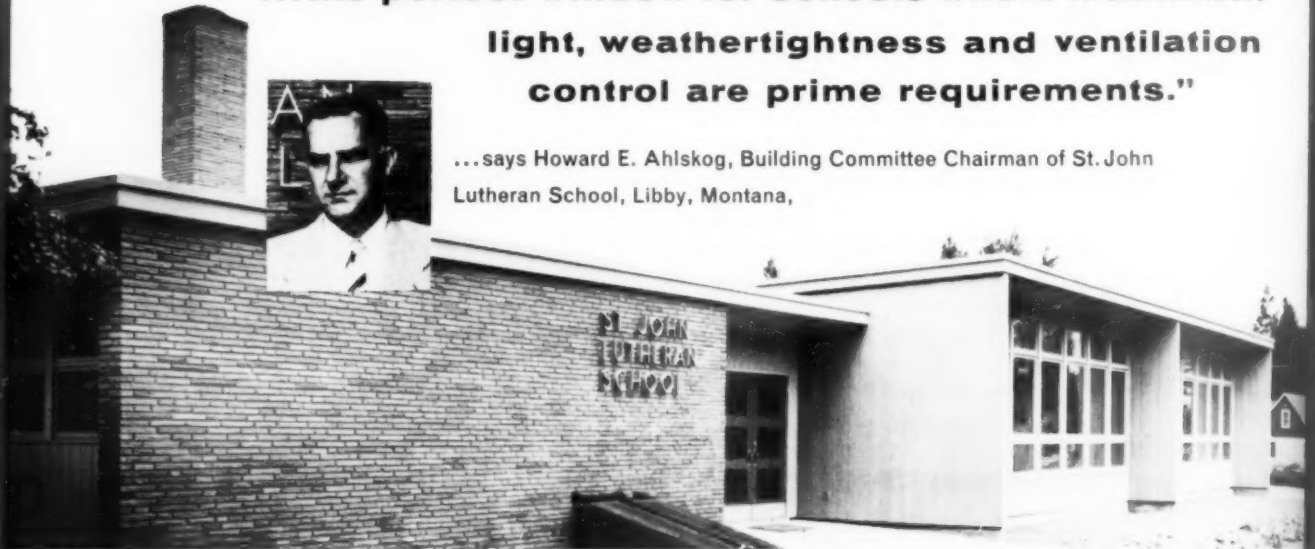
Alpha Chi Omega Sorority, West Lafayette, Ind.
Architects: Walter Scholer and Associates, Lafayette

BILT-WELL

Awning Windows

"...the perfect window for schools where maximum light, weathertightness and ventilation control are prime requirements."

...says Howard E. Ahlskog, Building Committee Chairman of St. John Lutheran School, Libby, Montana,



"Weatherproofness, appearance, ease of operation and economy were uppermost in our minds when we selected the design and materials for our new school. In using BILT-WELL Awning Windows, we achieved our desire for a weathertight window made of wood that would harmonize beautifully with the modern architecture of the building. We gained economy in that we have well-fitting windows that keep heat loss to a minimum...no condensation problems either." BILT-WELL Awning Windows conform to Commercial Standards 204-56, and have the AWWI Seal of Approval.

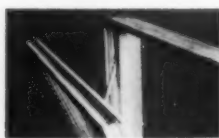


AWNING UNIT

FIXED UNIT

HOPPER UNIT

Use the same basic window unit as awning, hopper or fixed units; as casements, or in combination with picture sash to add variety and distinction to your school building.



Outstanding BILT-WELL Awning Unit Features

Completely rolled-in anodized special alloy aluminum weatherstripped top and bottom of sash and sides of frame



INDUSTRY ACCEPTED SIZES AND SPECIFICATIONS

1) Overall measurements shown do not include Sub Sill Picture units. 2) Arranged in order of increasing size. Double Insulating Glass and Cotton Packed.

2'-9"	3'-5"	3'-8"	4'-1"
28" x 14" Glass 2814—A B or F	36" x 14" Glass 3614—A B or F	39" x 14" Glass 3914—A B or F	44" x 14" Glass 4414—A B or F
28" x 18" Glass 2818—A B or F	36" x 18" Glass 3618—A B or F	39" x 18" Glass 3918—A B or F	44" x 18" Glass 4418—A B or F
28" x 22" Glass 2822—A B or F	36" x 22" Glass 3622—A B or F	39" x 22" Glass 3922—A B or F	44" x 22" Glass 4422—A B or F
2'-10 1/16"			
36" x 30" Glass 3630—A B or F	39" x 30" Glass 3930—A B or F	44" x 30" Glass 4430—A B or F	
3'-9 3/8"			
36" x 40" Glass (Equal to Two—2 3618 Units)	39" x 40" Glass (Equal to Two—2 3918 Units)	44" x 40" Glass (Equal to Two—2 4418 Units)	
Picture Unit 3636 DG	3936 DG	4436 DG	
3'-5 1/2"			
36" x 48" Glass (Equal to Two—2 3622 Units)	39" x 48" Glass (Equal to Two—2 3922 Units)	44" x 48" Glass (Equal to Two—2 4422 Units)	
Picture Unit 3644 DG	3944 DG	4444 DG	

NOTICE: UNLESS OTHERWISE SPECIFIED GLAZED 308. WHEN DOUBLE INSULATING (1/2") GLASS IS DESIRED, SPECIFY "GLAZED DG".

BILT-WELL

Kitchen and Storage Cabinets

...provided the perfect answer to all storage problems in this school job."

...says Edward A. Marye, partner of Meriwether, Marye and Associates, designers of the Mercer County High School in Harrodsburg, Kentucky.



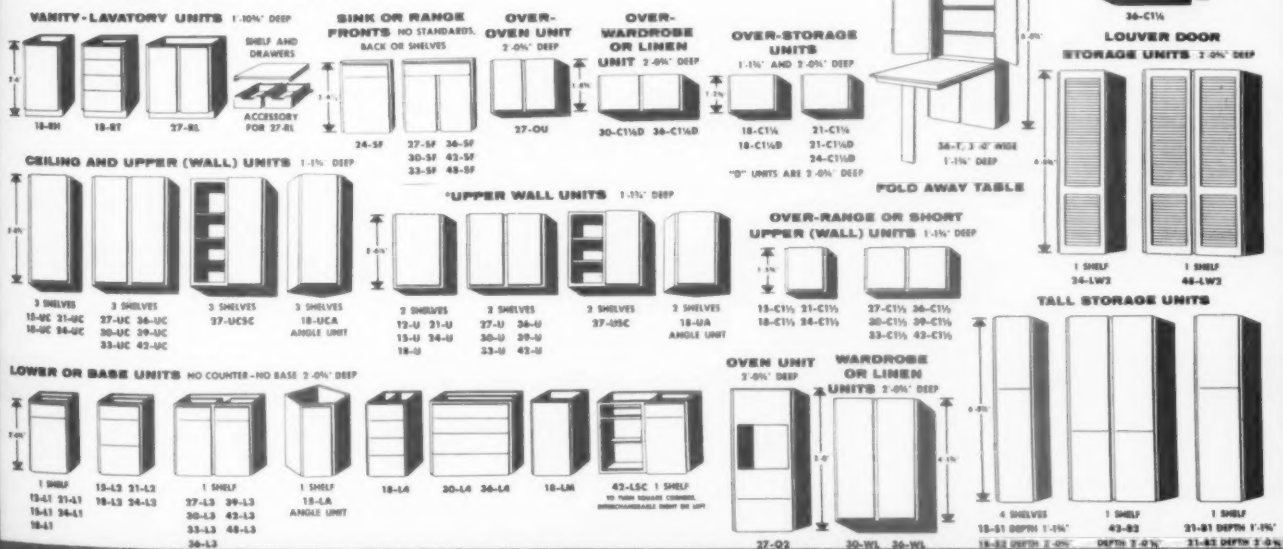
"In the home economics room, science lab, cafeteria and wherever storage was required, BILT-WELL Cabinets filled the bill and we are pleased with the way the smart, clean design of the cabinets carries out the modern design of the school."

There's a BILT-WELL Cabinet Unit for every storage purpose...over 90 different types and sizes in all. No other type of cabinet installation will give you as much storage space...as many years of service

per dollar spent. Furnished in Ponderosa Pine with a choice of Pine or Birch doors and drawer fronts.

Completely machined, semi-assembled, and individually carton-packed, BILT-WELL Cabinets are quick and easy to install. So easy that your manual training classes can do the work and end up with an installation that will equal any professional custom job.

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Stephen Watts Kearney High School, Linda Vista, Calif. Architects: Frank L. Hope & Associates, San Diego, Calif.

Environment and Daylight...

HOW THEY WORK TOGETHER FOR BETTER LEARNING

Put students in a classroom short on window area and they will feel closed in . . . restless . . . long to be outdoors.

But give them a classroom flooded with daylight . . . let them see the grass, the trees and sky around them . . . and their whole attitude improves. They are more alert, more interested, more eager.

Daylight and nature work together to make a natural environment for learning.*

Recognizing that most of the nation is cloudy and overcast most of the year (according to U. S. Weather Bureau records) and the cloudiest months are school months, the problem is how to bring in *enough* daylight.

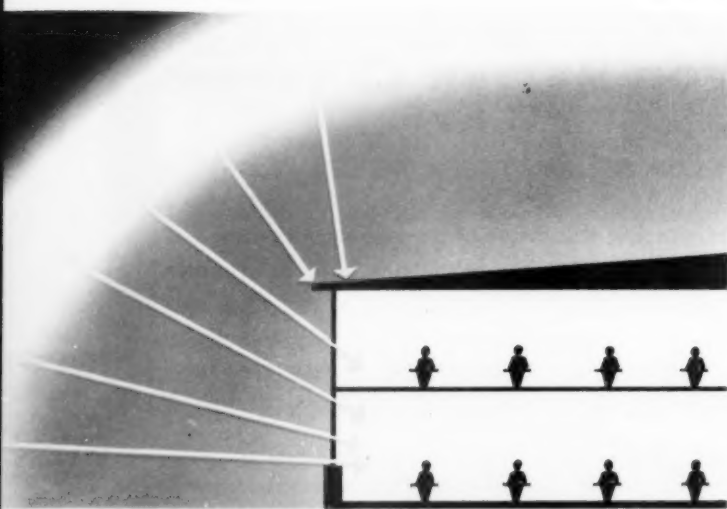
Most of the available daylight is diffused light,
(continued on overleaf)

*A book on this subject has been published by Reinhold Press. Author: Lawrence B. Perkins, A.I.A., one of America's foremost school architects.





Floor-to-ceiling clear glass admits abundant daylight even on overcast days. Neal Junior High School, North Chicago, Illinois. Architects: Fisher and Bryant, Chicago.



approaching from every point in the sky dome facing a window. As much as one-third of it may reflect from the ground, and much of it from nearby buildings or wings of your own school.

So we need the largest possible areas of glass to gather in this light . . . *clear* glass from floor (or low sill) to ceiling, and room wide. Daylight Walls, they're called. Only on rare occasions is daylight too bright for comfort. When this occurs, flexible shading devices (such as Venetian blinds) will take care of it.

What about the glass, itself? Nothing brings in *more* daylight than *clear, flat* glass. See the light transmittance chart and recommendations on the next page.



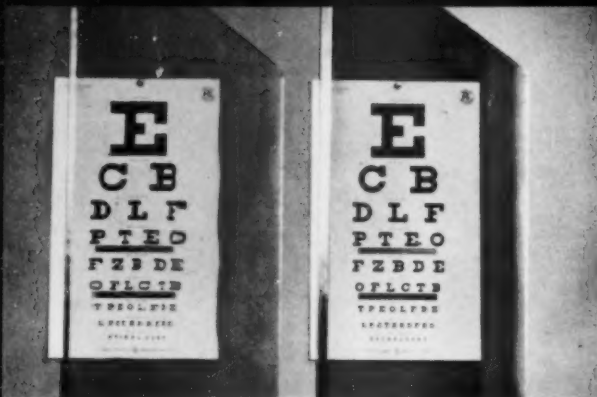
Glass in these doors and side lights is **Tuf-flex®** tempered plate glass. **Tuf-flex** resists impact, reduces danger and maintenance costs. Connellsville Joint School, Connellsville, Pa. Architects: Hunter, Caldwell and Campbell, Altoona, Pa.

LIGHT TRANSMITTANCE CHART	
GLASS TYPE	Average Transmittance at Normal Incidence
Sheet Glass	90.4%
1/8" Polished Plate Glass	90.9%
1/4" Polished Plate Glass	90.0%
Thermopane® Insulating Glass	82.6%*
Configured Flat Glass	52.3-92.5%**
Corrugated Glass	83.0%
Directional Glass Block	Less than 50.0%
*Made of two lights of 1/8" plate glass	
**Variance due to difference in patterns	

Recommendations as summarized by Prof. R. L. Biese, Jr.,* of Southern Methodist University before the Illuminating Engineering Society:

- (a) Window areas should extend from wall to wall and as near to the ceiling as possible. Mullions, muntins or other structural details should be held to a minimum.
- (b) Clear glass should be employed for the maximum admission of daylight and to permit clear vision to the out-of-doors.
- (c) Venetian blinds provide effective control for direct sunlight, high sky brightness, or reflected glare from the outside; assist the distribution of light in the room and permit natural ventilation.
- (d) A seating arrangement should be employed which minimizes brightness ratios within the normal field of vision.
- (e) Highly reflecting, non-glossy surface finishes within the limits recommended in the American Standard Practice for School Lighting should be used to increase illumination by inter-reflection and for proper control of brightness.

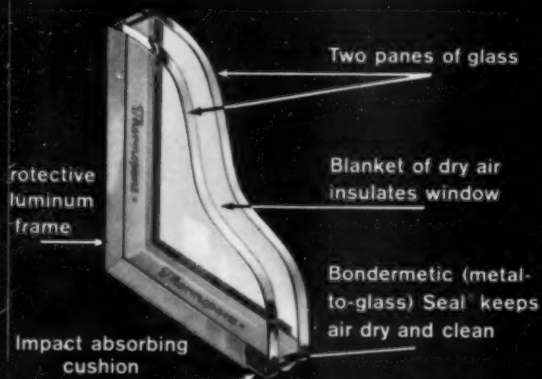
*A member of the Committee which wrote the Recommended Practice of Daylighting for the Illuminating Engineering Society. These recommendations are explained more fully in our 24-page Daylight Walls book. Use coupon on the next page for your copy.



PARALLEL-O-PLATE®

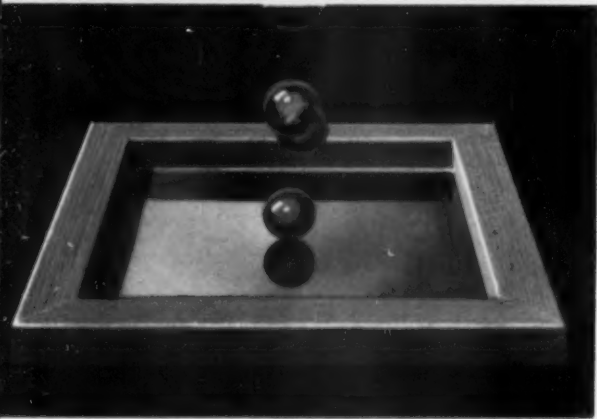
Cast a critical eye at the letters on the two eye-testing charts. The one on the left was taken through a pane of sheet glass; the one on the right through *Parallel-O-Plate* Glass.

With sheet glass, distortion is inevitable. With *Parallel-O-Plate*, you get maximum freedom from distortion. That's because of L·O·F's *twin-grinding* process in which both surfaces of the glass are ground simultaneously. Recommended for entrances and any other areas where architectural beauty and maximum lack of distortion are primary considerations.



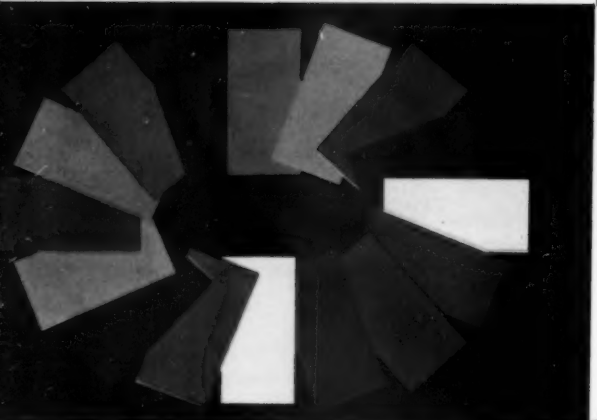
THERMOPANE®

Thermopane insulating glass puts two panes and a sealed-in blanket of dry, clean air between the children and the outdoors. Drafts are reduced so rooms are more comfortable, especially for children sitting close to windows. *Thermopane* even deadens outside noises. And the heat loss you would get through single panes is cut almost in half. Recommended for all windows where its insulating properties would result in substantial savings in winter.



TUF-FLEX®

Here you see a half-pound ($1\frac{3}{8}$ " diameter) steel ball, dropped from a height of ten feet, bouncing harmlessly off $\frac{1}{4}$ "-thick *Tuf-flex* heat-strengthened glass. *Tuf-flex* is 3 to 5 times stronger than regular plate glass of the same thickness. If maximum resistance is reached, *Tuf-flex* disintegrates into relatively harmless, rock-salt size particles. Recommended for gymnasiums, entrance doors and side lights, areas facing playgrounds . . . any area where youngsters and missiles are in rapid motion.



VITROLUX®

Used instead of masonry as an exterior facing material; also for interior partitions. Rich color, fused to the back of this clear, heat-strengthened plate glass, adds youthful beauty and cheerful character to your school. Natural resistance to weathering, crazing and checking. Standard maximum size of *Vitrolux* panels is 48" x 84". Special orders up to 60" x 84". Thickness: $\frac{1}{4}$ " plus $\frac{1}{64}$ " minus $\frac{1}{32}$ ". Sixteen standard colors plus black and white. Also in non-standard colors subject to manufacturing limitations.

Send coupon for your free copy of our book *How To Get Nature-Quality Light For School Children*. Complete. Authoritative. Packed with facts. Valuable for anyone interested in the design of school buildings.

Libbey-Owens-Ford Glass Company
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Please send me Daylight Walls book.

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**Translucent,
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Glass by
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A. I. A. File No. 26a—3-5-6



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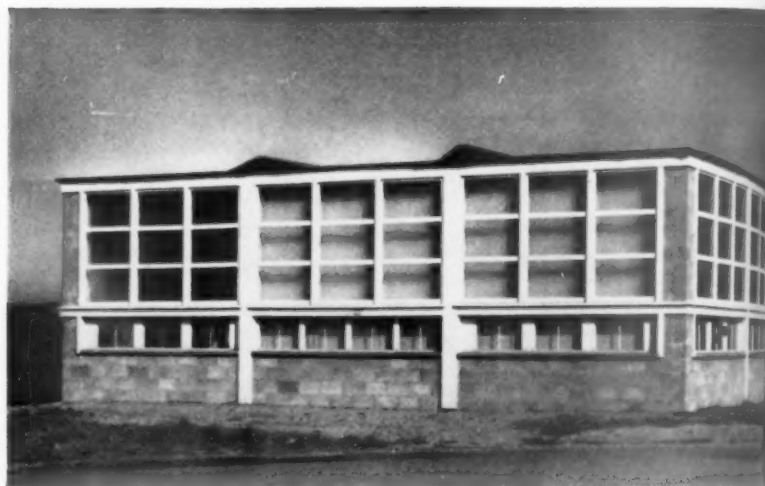
RESEARCH FINDS BETTER WAYS TO REMOVE HARMFUL QUALITIES OF *"Raw"* SUNLIGHT

MISSISSIPPI GLASS . . .

- Diffuses Light Evenly
- Reduces Discomfort and Glare
- Protects Young Eyes

Lighting engineers have found that the glare of "raw" sunlight is distracting and harmful in the schoolroom. Uniform, natural, glare-free illumination, made possible with translucent, light diffusing glass by Mississippi, not only assists in preventing dangerous eye fatigue, but it also helps maintain class interest and aids concentration. Classrooms appear more spacious and cheerful when flooded with undistorted, softened, natural daylight.

Additional advantages available with Mississippi Glass include the absorption of 50% of the sun's heat when heat absorbing and glare reducing glass is employed and the full protection afforded by wire glass (Approved Fire Retardant No. 32) when glazed in recommended openings. Adequate ventilation is provided since any Mississippi Glass pattern can be easily installed in conventional sash at no additional cost.

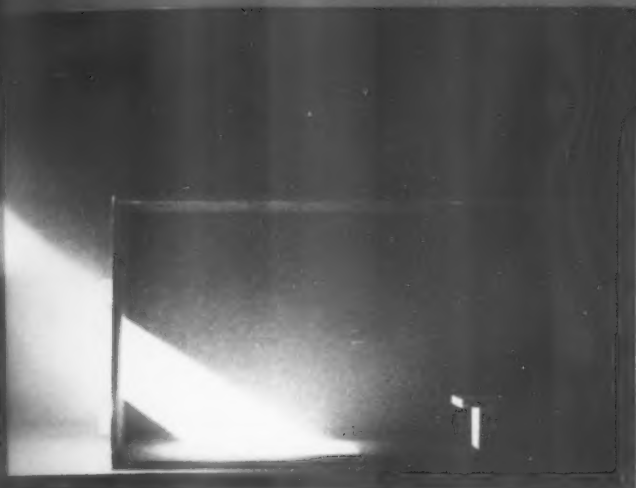


Experimental school building where various Mississippi patterns are subjected to actual classroom conditions in continuing daylighting research.



Mississippi Glass Company engineer records data taken from master microammeter. Luckiesh-Taylor Brightness Meter (at left) is also employed in obtaining significant data as to daylighting qualities of various glass patterns and surface finishes.

SMOKE BOX PHOTOGRAPHS PROVE LIGHT DISTRIBUTION QUALITIES OF MISSISSIPPI GLASS



Smoke box photo—window glazed with clear glass.
Note concentration of light next to window.



Smoke box photo—window glazed with diffusing
glass. Note distribution of light.

RALPH BENDA MODJESKI
AIA ARCHITECT

KIMBERLY 2-7771

April 8, 1953

1519 NORTH MAIN STREET
SANTA ANA, CALIFORNIA

Mr. Roy Musch
Pacific Coast Sales Manager
Mississippi Glass Company
Fullerton, California

Dear Mr. Musch:

The new Carl Harvey School for cerebral palsied children in Santa Ana, California, had a particular glass problem. We had a central corridor with a continuous wall to wall skylight above. This skylight had to offset the difference in lighting on the classroom side opposite the exterior windows, provide direct light into the corridor without glare, and most important to keep the solar heat within the building under control. Since the time that Coolite was installed we have found the results satisfactory enough to—

1. Omit venetian blinds between classroom and corridor, a savings of \$445.00, which more than paid the price differential between Coolite wire and regular wire glass.
2. The color is such quality that during hazy overcast weather the sky appears to be a more cheerful blue through the glass. This improves the morale of the children and personnel.
3. The control of the solar heat completely verifies the statements made in your Coolite brochure.

In conclusion we saved money and got a better job by using Coolite glass.

Yours very truly,

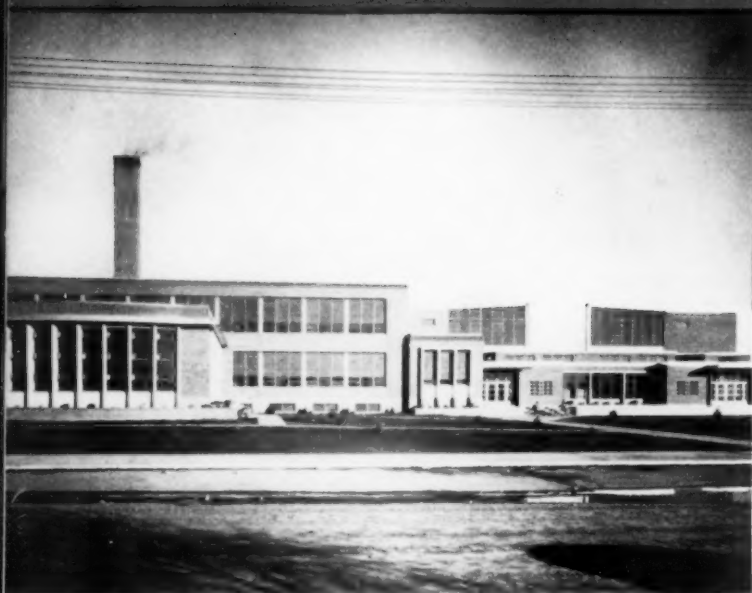
(signed) Ralph B. Modjeski

RBM:ab

**As a result
of extensive
studies in the
important field
of schoolroom
daylighting,
the following
MISSISSIPPI
patterns are
recommended:**

1 COOLITE Heat Absorbing and Glare Reducing Glass...for Maximum Comfort

Coolite, Heat Absorbing and Glare Reducing Glass is of a cool, blue color with a slightly greenish cast. Filtering out the unwanted factors in "raw" sunlight, Coolite floods classrooms with softened, delicately tinted, natural illumination. Coolite keeps classrooms cooler, more comfortable, for it absorbs nearly 50% of the solar heat. Coolite conditioned-light helps protect precious young eyes from fatigue. Students see better, feel better, tend to learn more readily in classrooms glazed with Coolite.



Exterior view of Idaho Falls High School, 1/8" Hammered Coolite, Glare Reduced is glazed in sidewall sash. Architect: Fetzer & Fetzer, Salt Lake City, Utah.



Edison, Barton & Mergenthaler Vocational School, Baltimore, Maryland. Coolite Wire Glass, Glare Reduced, spreads light evenly through classrooms—reduces sharp shadows—cuts eye fatiguing glare. Architect: Taylor & Fischer.



Coolite wire glass in skylights of new Culver City High School (Calif.) improves daylighting in corridors.



Conditioned illumination, greater fire protection, maximum comfort is provided by Coolite Wire Glass in skylights.

Dayl
four
Missi

2 PENTECOR...for Maximum Light Distribution

Pentecor, a handsome ribbed pattern by Mississippi has proved to be a glass widely favored by school architects. Diverting softened, diffused light deep into interiors, Pentecor makes seeing tasks easier by providing the maximum in light distribution ... floods entire classrooms with plenty of undistorted, softened, natural light.



Clopton High School, Clarksville, Mo. Architect: Kenneth E. Wischmeyer, St. Louis, Mo.; Contractor: Brockmeyer Construction Co.



Maximum light distribution at low cost is achieved by installation of 1/4" Mississippi Pentecor Glass glazed in vertical sidewall sash. Vision strip in two lower lights avoids lack of visual contacts with outdoors. Glazier: Rainbow Glass Co., St. Louis, Mo.



Daylighting wall of Mississippi Pentecor Glass installed in upper four lights of Pearl Consolidated Elementary School, Jackson, Mississippi. Architect: Jones & Haas, Jackson, Mississippi.

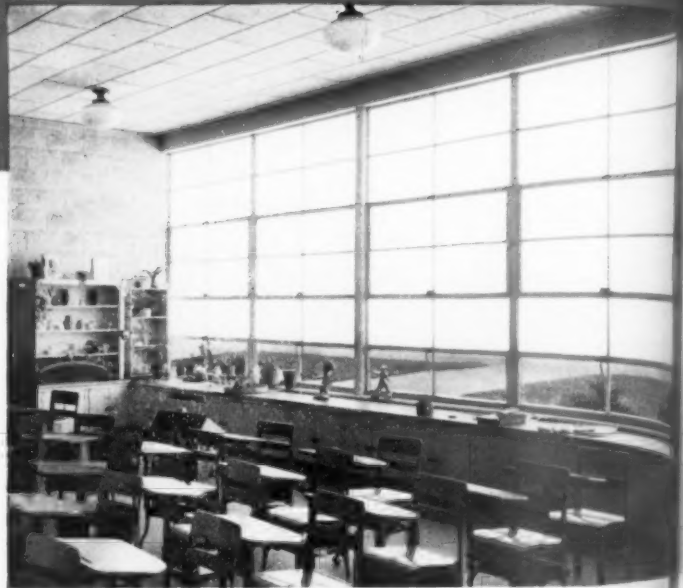
"We have regularly specified Mississippi Pentecor in a number of schools with very pleasing results and at moderate cost. In analyzing our requirements for south, east and west exposures, we took into consideration, among other things, the necessity for the elimination of sharp harsh glare, the reduction of distribution of undistorted, natural light over the entire work area. All of these requirements have been met with your Pentecor Glass."

Kenneth E. Wischmeyer, A.I.A.
St. Louis, Mo.

3 HYLITE...for maximum Light Transmission

With its attractive surface finish, Hylite affords maximum light plus diffusion. It is particularly recommended for use in localities which are subject to a high percentage of overcast days or in exposures on which direct sunlight seldom, if ever falls. Schoolrooms glazed with Hylite are bright with a pleasant light that makes them cheerful and inviting. This all adds up to happier, more attentive pupils and the effect created is conducive to concentration and school interest.

Other Mississippi Glass patterns suitable for any particular requirement of the architect in the way of configuration or light distribution qualities, include, Luxlite, Factrolite and Smooth Rough. For details see our catalog in Architectural File or write for additional literature. Samples on request.



Learning is fun in such a bright cheery room. Translucent, light diffusing glass by Mississippi spreads light evenly. Bottom row is vision strip of clear glass.

4 Polished Misco Wire Glass for maximum beauty with Protection (APPROVED FIRE RETARDANT MATERIAL)

Polished Misco Wire Glass with its attractive and almost inconspicuous diamond netting is a truly modern glass that combines the utmost in protection with modern beauty. It is therefore ideally suited for school use. The innate strength of this famous wire glass by Mississippi adds structural endurance, reduces danger from breakage. Polished Misco helps retard the effects of dangerous fires... tends to bottle up and control many fires before they can spread to tragic proportions. Blending harmoniously with modern school construction, Polished Misco is unexcelled in windows, doors, skylights and partitions.



Window wall of Polished Misco in Hillendale Elementary School, Montgomery County, Md. Architect: McLeod & Ferrara, Washington, D. C.; General Contractor: H. O. McAlister & Co., Silver Springs, Md.



Fire and breakage protection is assured by typical installation of Polished Misco in sidewall sash. Edison, Barton & Mergenthaler Vocational School, Baltimore, Md.

The data presented on this page will be applicable for a classroom subject to the following specifications:

The dimensions to be 24 feet wide, 36 feet long, and 12 feet high.

The walls, floor, and ceiling to be decorated according to Illuminating Engineering Society recommendations as to reflectivities.

The glass, under discussion for the illumination panel of the fenestration wall, to be as continuous as practical from the 6 foot height to the ceiling, and full wall length.

A vision strip of adequate height to be set at convenient eye level beneath the illumination panel.

Illumination data for: typical spring season, Eastern exposure, 9:15 A.M., May 15, 38° North Latitude.

1/8" PENTECOR— FOR REDIRECTING DAYLIGHT

Direct light transmission 88.5%
Diffuse light transmission 69.5%

Highest illumination at the back of the room may be obtained by the use of 1/8" Pentecor glazed with the ribs running horizontally. This high level of redirected daylight can be obtained without sacrificing a reasonably high illumination at the back of the room during overcast days.

With a sun exposure of 5,000 foot candles Vertical Surface Illumination, the average levels of illumination at various points across the room are:

1,035 FOOT CANDLES	4 FEET FROM THE WINDOW
1,575 FOOT CANDLES	8 FEET FROM THE WINDOW
1,165 FOOT CANDLES	12 FEET FROM THE WINDOW
945 FOOT CANDLES	16 FEET FROM THE WINDOW
205 FOOT CANDLES	20 FEET FROM THE WINDOW

With overcast sky conditions of 1,000 foot candles Vertical Surface Illumination, the average levels of illumination at various points across the room are:

258 FOOT CANDLES	4 FEET FROM THE WINDOW
160 FOOT CANDLES	8 FEET FROM THE WINDOW
92 FOOT CANDLES	12 FEET FROM THE WINDOW
62 FOOT CANDLES	16 FEET FROM THE WINDOW
58 FOOT CANDLES	20 FEET FROM THE WINDOW

NOTE: For greater diffusion, softening of shadows, and reduction of lighting contrasts within the room, 1/8" Pentecor Glare Reducing is recommended.

1/8" PENTECOR GLARE REDUCING— FOR SOFTENED DAYLIGHT

Direct light transmission 68.0%
Diffuse light transmission 60.5%

With a sun exposure of 5,000 foot candles Vertical Surface Illumination, the average levels of illumination at various points across the room are:

690 FOOT CANDLES	4 FEET FROM THE WINDOW
735 FOOT CANDLES	8 FEET FROM THE WINDOW
630 FOOT CANDLES	12 FEET FROM THE WINDOW
445 FOOT CANDLES	16 FEET FROM THE WINDOW
370 FOOT CANDLES	20 FEET FROM THE WINDOW

With overcast sky conditions of 1,000 foot candles Vertical Surface Illumination, the average levels of illumination at various points across the room are:

188 FOOT CANDLES	4 FEET FROM THE WINDOW
162 FOOT CANDLES	8 FEET FROM THE WINDOW
97 FOOT CANDLES	12 FEET FROM THE WINDOW
83 FOOT CANDLES	16 FEET FROM THE WINDOW
56 FOOT CANDLES	20 FEET FROM THE WINDOW

1/8" COOLITE GLARE REDUCING— FOR MAXIMUM COMFORT AND CONDITIONED LIGHT

Direct light transmission 45%
Diffuse light transmission 28.5%

Maximum protection from excessive solar heat gain and excessive sunlight on Eastern, Western, and Southern exposures may be obtained by the use of Coolite Glare Reducing glass. Not only is window panel brightness reduced, by means of diffusion and light transmission control, to a point of comfort in all but the most extreme circumstances, but also solar heat gain is reduced by one-half. This glass is recommended where excessive sunlight is the prevailing condition.

With a sun exposure of 5,000 foot candles Vertical Surface Illumination, the average levels of illumination at various points across the room are:

360 FOOT CANDLES	4 FEET FROM THE WINDOW
405 FOOT CANDLES	8 FEET FROM THE WINDOW
285 FOOT CANDLES	12 FEET FROM THE WINDOW
230 FOOT CANDLES	16 FEET FROM THE WINDOW
160 FOOT CANDLES	20 FEET FROM THE WINDOW

With overcast sky conditions of 1,000 foot candles Vertical Surface Illumination, the average levels of illumination at various points across the room are:

158 FOOT CANDLES	4 FEET FROM THE WINDOW
87 FOOT CANDLES	8 FEET FROM THE WINDOW
49 FOOT CANDLES	12 FEET FROM THE WINDOW
41 FOOT CANDLES	16 FEET FROM THE WINDOW
27 FOOT CANDLES	20 FEET FROM THE WINDOW

1/8" HYLITE—FOR MAXIMUM LIGHT

Direct light transmission 90.5%
Diffuse light transmission 84.0%

Maximum light transmission, for schools in localities which are subject to a very high percentage of overcast days, or for exposures on which the sun never falls, may be obtained through the use of 1/8" Hylite glass.

With overcast sky conditions of 1,000 foot candles Vertical Surface Illumination, the average levels of illumination at various points across the room are:

310 FOOT CANDLES	4 FEET FROM THE WINDOW
217 FOOT CANDLES	8 FEET FROM THE WINDOW
140 FOOT CANDLES	12 FEET FROM THE WINDOW
94 FOOT CANDLES	16 FEET FROM THE WINDOW
87 FOOT CANDLES	20 FEET FROM THE WINDOW

Interior surface brightnesses will vary according to the reflectivity of the paint used for decoration, and may be obtained by a method of approximation, sufficiently close for most design purposes, by multiplying foot candle readings by the reflectivity of the paint to obtain the brightness in foot lamberts.

Window panel brightness may reach undesirable extremes when the sun is within the angle of view, and will vary as the sun falls within or leaves the angle of view. No static translucent medium, having a light transmission sufficient to admit a practical amount of usable daylight, can serve as protection against the multi-million foot lamberts of brightness in the sun without some supplementary brightness control. Protection against the brightness of the sun on one hand, and transmission of maximum daylight for overcast conditions on the other, constitutes too wide a range to be covered by a fixed, non-elastic medium. Glare within the room can be eliminated by the use of light diffusing glass, but glare of the window panel itself will require additional control. Therefore, for East, South, or West elevations, we recommend that either the seating arrangement should be such that the sun itself is excluded from the field of view (face students toward the North in all classrooms), or some means of supplementary brightness control, such as adjustable blinds, be provided.

Translucent, light diffusing glass by Mississippi is available in a wide variety of patterns and surface finishes. All have been scientifically designed to distribute daylight to your advantage. There is a school-tested pattern to meet your requirements in line with your building budget. After you have determined on the large sash sizes that are today so widely favored in modern school architecture, consult your local Mississippi Glass supplier for estimates in these sizes. You will be pleased to learn that the pattern of your choice will compare favorably in cost with ordinary glazing. And remember, only Mississippi Glass offers these advantages in school daylighting:

GLARE REDUCTION	HEAT ABSORPTION	LIGHT DIRECTION
DIFFUSION	MAXIMUM LIGHT	PROTECTION
	MINIMUM COST	

In new schools or in remodeling projects, take advantage of Mississippi's wide experience. Its technicians are ready to help you with every glazing problem. Specify glass by Mississippi and make better daylighting a part of your plan.



Mississippi Glass is available from most leading distributors of quality glass in all principal cities of the United States and Canada from Canadian Pittsburgh Industries Ltd., Hobbs Glass Division.

WRITE FOR FREE CATALOGS. SAMPLES ON REQUEST.

see our catalog in
ARCHITECTURAL
FILE
or write for copy

MISSISSIPPI

88 ANGELICA STREET

Glass **COMPANY**
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WORLD'S LARGEST MANUFACTURER OF ROLLED, FIGURED AND WIRED GLASS

THE WILLIAM BAYLEY COMPANY

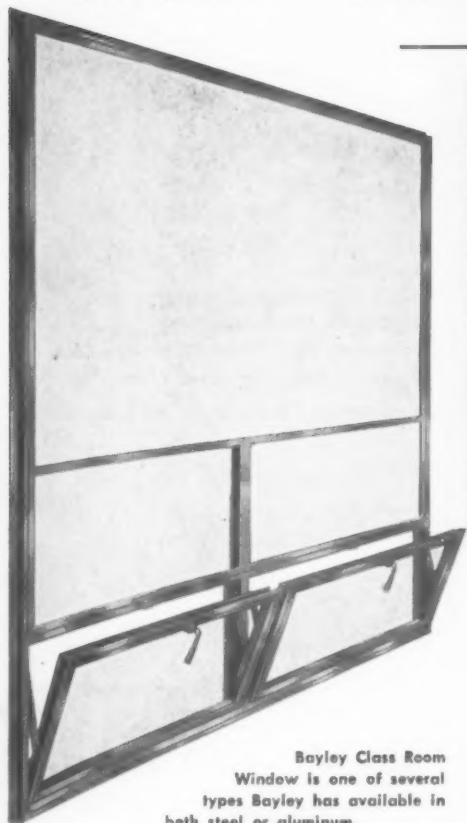
Springfield 99, Ohio
1200 Warder St.

New York 17, N. Y.
Grand Central Terminal

Chicago 2, Ill.
105 W. Madison St.

Washington 16, D. C.
3701 Mass. Ave., N.W.

Factories: Springfield, Ohio



Bayley Class Room Window is one of several types Bayley has available in both steel or aluminum.

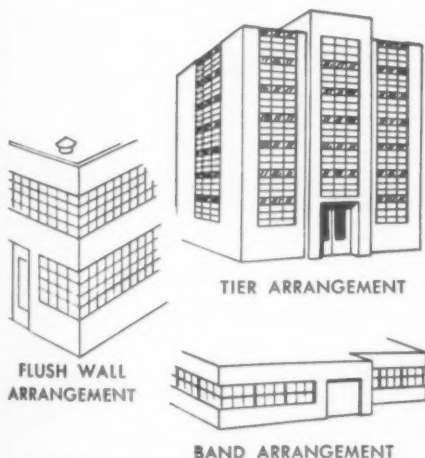


BAYLEY School Windows and Curtain-Wall Systems

The "better-serve" policy that, for so many years, has keynoted Bayley's client relationship is readily apparent in numerous ways. Constant improvement in product detail and quality is one. Another is exemplified in the Bayley Aluminum Projected Window (offered also in steel) that was designed to provide the window features requested by school authorities.



Modern appearance • Economy — painting unnecessary • Permanence — long carefree life • Simplicity — no complicated mechanism • Adaptable to all types of construction • Glazing outside — flat surface inside • Easily washed from inside • Prepared for screens • Permits use of accessories, such as draperies, shades, curtains, venetian blinds or awnings.



BAYLEY CURTAIN-WALLS

Without the costliness of special window designing you can now execute many of your design treatments in modern curtain-wall or "skin" construction. With Bayley sub-frame design, which accommodates separate window units, standard Bayley Aluminum or Steel Projected Windows (with channel frames) of any standard size can be used—offering wide flexibility in the use of newer panel decorating materials, plus the desired window area for providing maximum air, light and vision.

Whatever your window requirement may be, Bayley's years of specialized window experience can undoubtedly be of value to you. Write or phone.

See Bayley in Sweet's. Complete catalogs on aluminum windows, 17a/Bay; steel windows, 17b/Ba.



79 Years of
RELIABILITY

WRITE TODAY for these two helpful data files

The Catalog gives you complete specifications, while the Drafting Room Standards give full size details for drafting simplification.

ORIGINATORS — DESIGNERS — MANUFACTURERS — INSTALLERS

AMERICAN SCHOOL AND UNIVERSITY—1958-59

THE ADAMS & WESTLAKE COMPANY

Elkhart, Indiana

Sales Offices, 319 W. Ontario Street, Chicago, Illinois

Manufacturers of Adlake Aluminum Windows



Building: North Rose Central School,
North Rose, New York
Architect: Thomas Lyon White,
Associate: F. Kirk Helm
Contractor: Louis Gressani Contractors, Inc.
Windows: Adlake Projected Type



Building: Quincy School, Brooklyn, New York
Architect: Board of Education
Contractor: Kings Bronze Co., Inc.
Windows: Adlake Double Hung Type



Building: Graduate School of Public Health,
University of Pittsburgh, Pittsburgh, Pennsylvania
Architect: Eggers & Higgins
Contractor: Mellon-Stuart Co.
Windows: Adlake Reversible Type



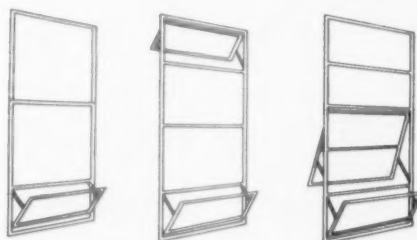
Building: Thomas Jefferson School,
Hammond, Indiana
Architect: L. Cosby Bernard & Co.
Contractor: Roy C. Clark, Inc.
Windows: Adlake Reversible & Projected Types

THE ADAMS & WESTLAKE COMPANY

Only Adlake combines these 6 basic advantages: No warp, no rot... Minimum air infiltration... No painting, no maintenance... Finger-tip control... No rattle, stick or swell ... Guaranteed non-metallic weather stripping. Also, double hung windows with patented serrated guides.

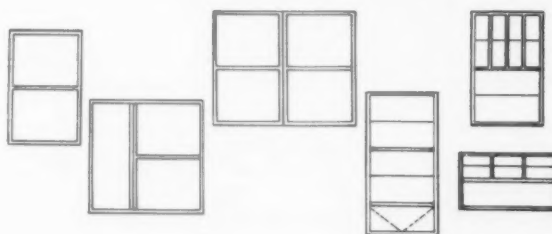
ADLAKE PROJECTED WINDOWS

These Adlake aluminum windows are available in the styles shown in these sketches. Maximum vent width, 5'0". Maximum vent height, 2'9". Made of custom heavy section aluminum, with non-metallic wool, woven pile weather stripping material. Complete with hardware and aluminum screens.



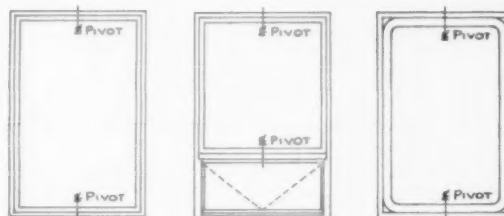
ADLAKE DOUBLE HUNG WINDOWS

Available in a wide range of styles as shown here, all Adlake Double Hung Windows are completely double weather stripped with a high pile woven wool fabric, highly impervious to elements. This, used in conjunction with Adlake's patented serrated guides, gives Adlake windows finger-tip control and minimum air infiltration.



ADLAKE REVERSIBLE WINDOWS

Adlake Reversible Windows are available in the types shown here. All can be washed easily from *inside* the building. They all have these basic Adlake advantages: minimum air infiltration... finger-tip control... no painting or maintenance... no warp, rot, rattle, stick or swell.



ADLAKE CURTAIN WALL

Adlake manufactures windows for use in modern curtain wall construction, which gives an "all-window" effect.

DOUBLE GLAZING

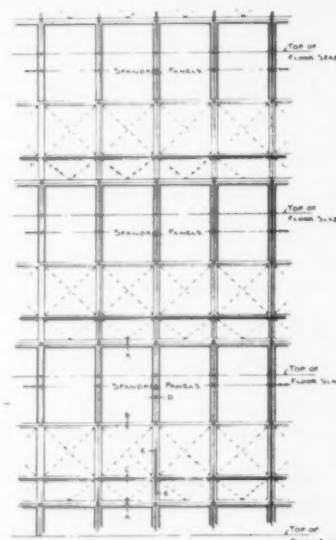
All Adlake Reversible Windows, Projected Windows, and Series 600, 700, and 800 Double Hung Windows are available for insulating double glazing. Curtain Wall and Stationary also may be double glazed.

STATIONARY WINDOWS

Adlake manufactures aluminum windows for fixed installations.

For additional information, write

The Adams & Westlake Company, Elkhart, Indiana



KIMBLE GLASS COMPANY SUBSIDIARY OF OWENS-ILLINOIS

Toledo 1, Ohio

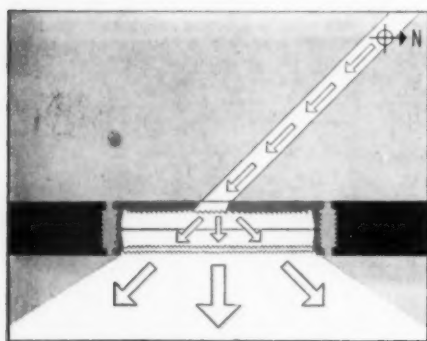
Glass panels bring cool daylight in through the roof

**Light-Selective Toplite
Roof Panels transmit
desirable light; reject
hot, glaring sun**

NO LONGER is it necessary to confine close detail work to the area nearest the windows. Toplite Roof Panels permit daylighting of all building areas regardless of location or distance from exterior walls. Toplite Panels may be installed in continuous strip, pattern, or in individual panels. Use a Toplite panel as you do a lighting fixture.

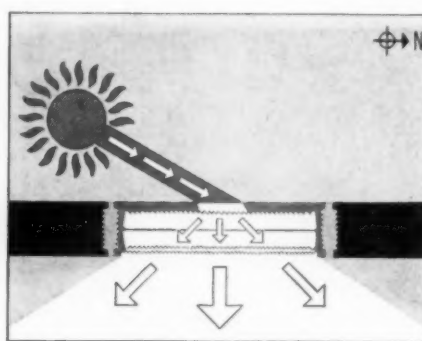


Toplite installation at Michener School, Adrian, Michigan. Louis Kingscott, Architect. W. N. Bjorklund, General Contractor. The Toplite panels and glass block act as a daylighting team to provide sufficient daylight during normal days without need for artificial lighting.



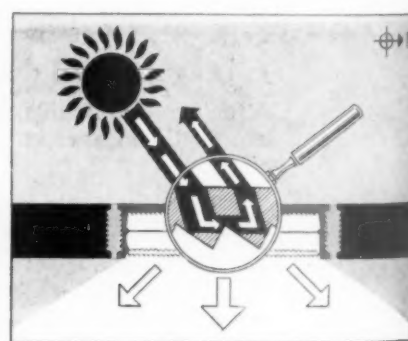
**Transmits
north light**

Maximum transmission of north light is a desirable quality in toplighting because of its uniformity and freedom from glare and solar heat. Note how the prism structure of Toplite affords efficient transmission of north light.



**Accepts
winter sun**

Since low winter sun is comparatively weak in relation to high summer sun as far as glare and solar heat are concerned, maximum transmission is again desirable. This illustration shows how Toplite accepts and transmits winter sunlight.



**Rejects
summer sun**

Other materials which transmit north light and low winter sun also transmit high percentages of light during the hot, summer months. Toplite rejects direct light and heat from hot, summer sun, but transmits much of the cool, north light.

KIMBLE GLASS COMPANY

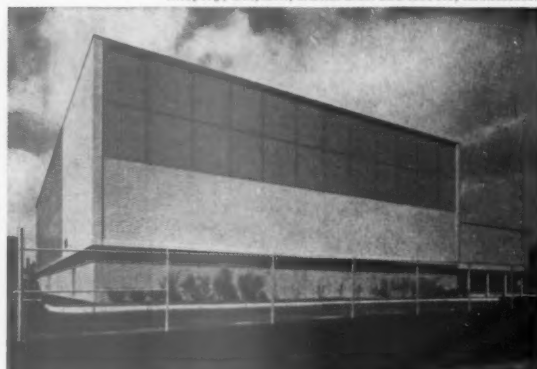
Owens-Illinois Glass Block mean good daylighting . . . lower maintenance

Northeastern University, Boston, Massachusetts.
Shepley, Bulfinch, Richardson and Abbott, Architects.

*...in
new
schools*



Panels of Owens-Illinois light-directing Glass Block provide even distribution of daylight throughout the gymnasium area. They eliminate "hot spots," glare and harsh contrasts.



The insulating efficiency of glass block makes designs like this possible. Glass block permit use of large glass areas without excessive heat loss in the sides and front of the gymnasium.

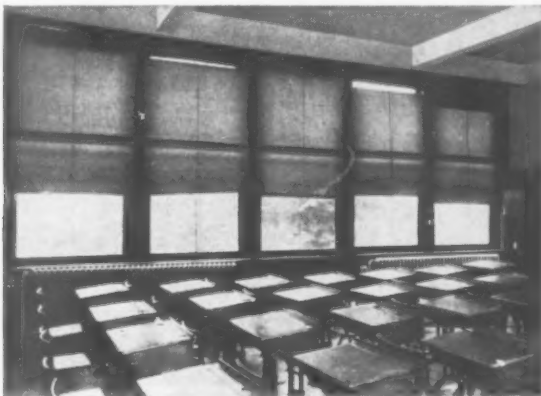
Here is a school that makes maximum use of free daylight . . . is easier to heat in winter . . . is easier to maintain. The reason? Panels of Owens-Illinois light-directing Glass Block.

Great use of natural lighting has been

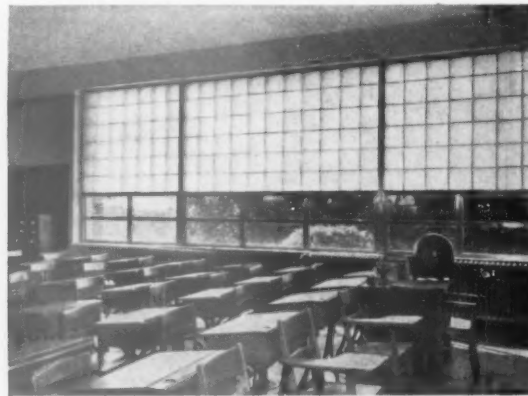
made part of the building plan. With panels of Owens-Illinois Glass Block, daylight is directed upward and diffused over all parts of the schoolroom all day long. The combination of light-directing glass block and vision strip

keep brightness at comfortable levels, provide vision and ventilation. Excessive glare and harsh contrasts are eliminated. Because glass block insulate as efficiently as an 8-inch brick wall, heating costs are cut.

*...in
old
schools*



OLD windows needed constant, expensive maintenance . . . did not provide healthful daylighting throughout the school's classrooms.



NEW panels of Owens-Illinois Glass Block insulate so efficiently and daylight so effectively, heating and lighting costs are cut.

Here is a school that solved the problem of worn-out window sash. Continual, expensive maintenance of the old sash did not provide protection from wintry blasts. After sash were replaced with Owens-Illinois light-directing

Glass Block maintenance costs are practically eliminated. Glass block won't rust or rot . . . are hard to break.

If you are in the process of remodeling old structures, or building new ones, don't overlook the positive advantages

—maintenance economies; better seeing conditions—that panels of glass block bring. For complete information write Kimble Glass Company, subsidiary of Owens-Illinois, Department AU8, Toledo 1, Ohio.

GLASS BLOCK AND TOPLITE PANELS
TWO **®** PRODUCTS

OWENS-ILLINOIS

GENERAL OFFICES • TOLEDO 1, OHIO

AMERICAN SCHOOL AND UNIVERSITY—1958-59

MARMET CORPORATION

314 Bellis Street, Wausau, Wisconsin

Beauty
on a BUDGET



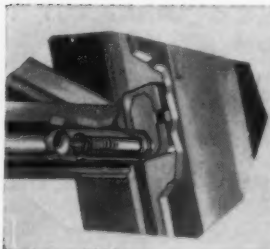
Michael J. Whalen
Junior High School
Hampden, Conn.
Architect, Warren Ashley,
Hartford, Conn.

Series 600 Curtain Wall is specially engineered for one or two story buildings, provides a dramatic modern school building at modest cost. Aluminum grid framing comes in large sections for fast, low cost erecting. All connecting bolts are carefully concealed by the glazing race or snap-on glazing bead if desired. Between the floors wall panels can be finished with a variety of striking colors or mosaic patterns. Vinyl gaskets and new double weatherstripping maintain a tight seal against water entry.



O'Fallon Technical High School
St. Louis, Missouri
Architect, Ray S. Leimkuhler,
Board of Education
St. Louis, Missouri

Series 200 Ribbon Window — makes an ideal classroom window especially when used with glass block. It has the effect, when installed, of emphasizing horizontal building lines for a beautiful modern effect. Aluminum screens and storm sash are available. All operating lites can be equipped with tight sealing vinyl weatherstripping and can be installed to project inward or outward . . . in hopper vent or awning style.



Never Slips —
because it's adjustable
Marvelously smooth in operation, Marmet ventilating lites operate on a friction type hinge . . . that holds the window where you put it. Nylon block friction shoes slides in vertical slots at each side of the frame . . . are adjusted for wear with a turn of the screw in the coil tension springs.

For detailed information and specifications on the complete line of Marmet products—consult Sweet's Catalog File . . . or write to MARMET for Catalog 58.

MARMET
Corporation

314 Bellis Street Wausau, Wisconsin

Marmet

aluminum
windows and
doors

Large vertical
sections speed
erection—
lower costs

The large mating sections of the 600 Series can often be installed and anchored by just two men . . . keeping labor cost to a minimum. A special arrangement in the mating tubular extrusions permits expansion or contraction in the curtain wall while a complete water seal is maintained at all joints.



Continuous head and sill in Ribbon Sash
Fabricated of extra heavy 3/16" aluminum alloy extrusions, the Series 200 provides a complete set of fixed and ventilating lites for an entire classroom in one frame section. Window installation is faster and costs less. The entire section is also load bearing and requires no lintel for masonry above.



Non glare light transmission

When combined with glass block . . . ribbon windows provide ventilation, and an outside view at eye level, with a large amount of diffused daylight from top sill to ceiling.

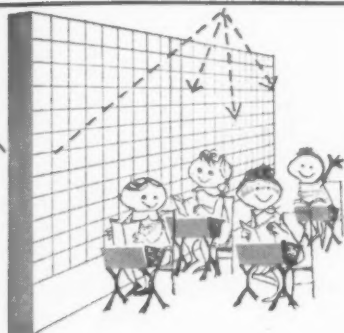
★ NEVER requires painting

The gleaming luster of MARMET's aluminized or satinized finish "stays new" indefinitely. A special dip treatment that removes all surface impurities . . . assures even weathering . . . saves the cost of periodic painting or maintenance.

• CUSTOM WINDOWS • ARCHITECTURAL PROJECTED • STOCK DOORS & ENTRANCES

PITTSBURGH CORNING CORPORATION

Dept. AN-8, One Gateway Center, Pittsburgh 22, Pa.



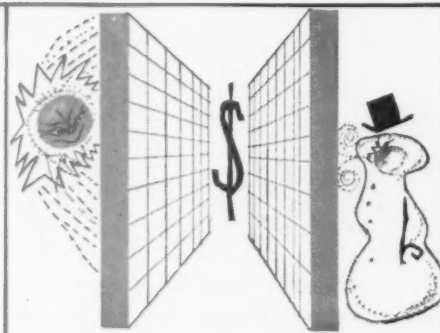
BALANCED DAYLIGHTING

PC Glass Blocks direct daylight upward to the ceiling. From here, it is diffused evenly throughout the room. Result—glare is controlled and high-contrast shadows are eliminated.



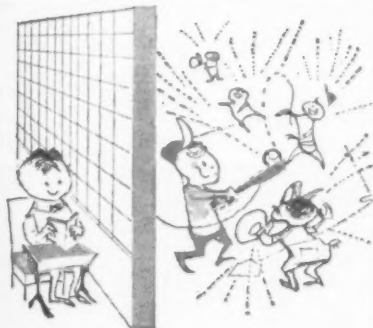
REDUCED MAINTENANCE COSTS

Because Glass Blocks are mortared into panels, there's nothing to rust, rot, or paint. They can be washed down with a hose, or cleaned with a wet mop—a definite savings feature.



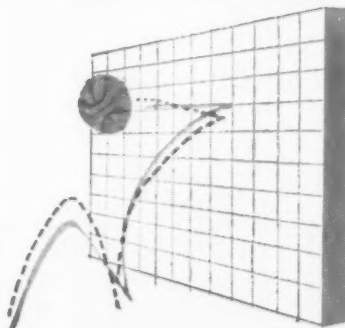
LOWER HEATING COSTS

Glass Block panels have roughly the same insulation value as an 8-inch thick masonry wall. This means lower heating costs in new and old buildings—and more comfort in warmer weather.



NOISE REDUCTION

By nature of their construction—hollow, sealed glass units—Glass Blocks serve as excellent noise barriers. They help keep noises out and inside activity free from distraction.



IMPACT STRENGTH

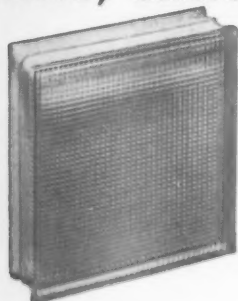
Basketballs, footballs, or just plain vandalism can run up serious replacement expenses. Glass Blocks have actually saved thousands of dollars annually because of their impact strength.



ARCHITECTURALLY CORRECT

Architects recognize that Glass Blocks offer creative design solution as well as functional advantages. And our new Color Glass Blocks increase exterior design flexibility.

Here's why PC Glass Blocks are winning favor in a variety of daylighting applications... in classrooms, gymnasiums, swimming pools, stairwells, clerestories, bandrooms, corridors, entrances and other areas. An ideal product for your window modernization projects, too.



Write for complete product information to Pittsburgh Corning Corporation, Dept. AN-8, One Gateway Center, Pittsburgh 22, Pennsylvania. In Canada: 57 Bloor Street West, Toronto, Ontario.

PITTSBURGH CORNING CORPORATION

Also manufacturers of FOAMGLAS® insulation

AMERICAN SCHOOL AND UNIVERSITY—1958-59

PITTSBURGH PLATE GLASS COMPANY

Pittsburgh, Pennsylvania

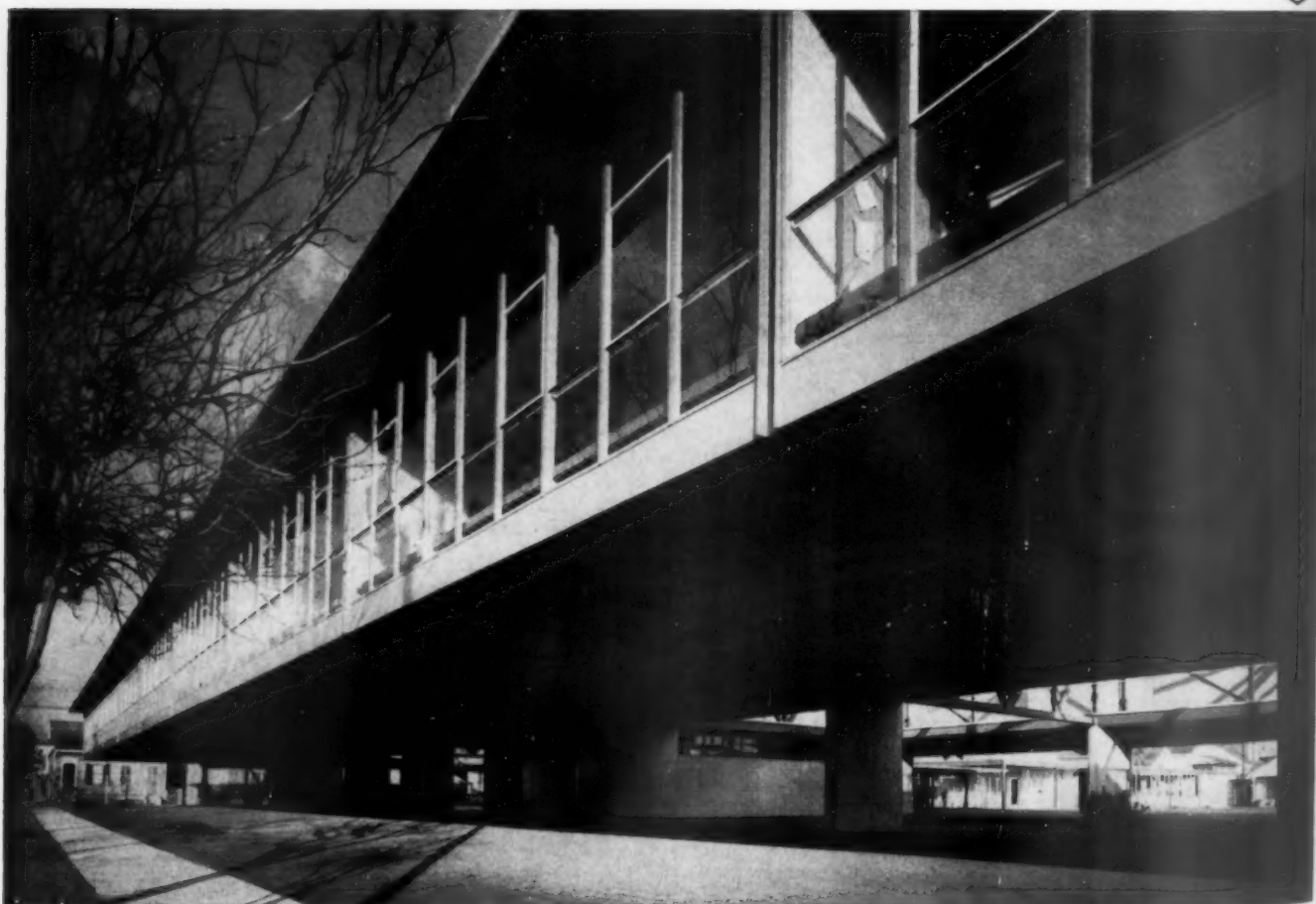
Stilts hold it up— SOLEX glass keeps the heat out

Hardly anyone can pass this school building without a stop and a stare. People call it the "treehouse school," because it is literally suspended in mid-air on 12 cantilevered trusses. By doing this, they could use the space *underneath* the school for a playground. The space was badly needed, because only two acres were available for a 770-pupil school . . . the Phyllis Wheatley School in New Orleans.

Each of the 22 classrooms is glazed with SOLEX heat-absorbing, glare-reducing glass. On southern exposures, where the sun beats

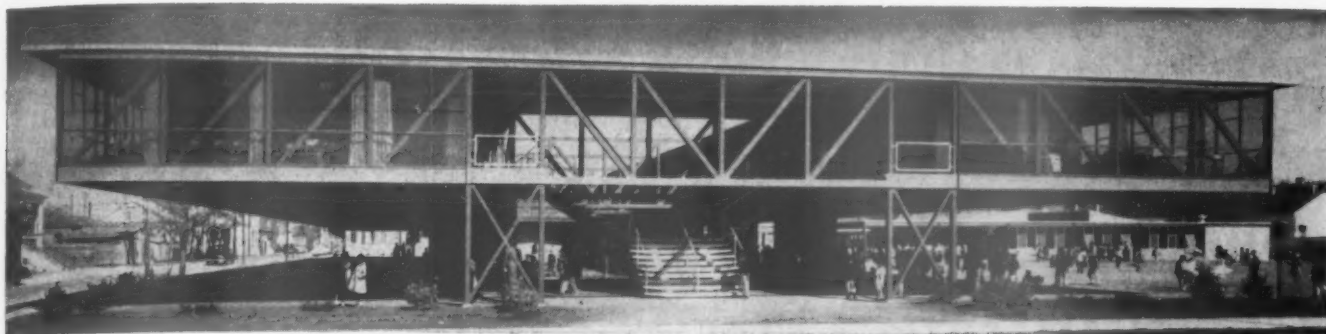
in fiercely, the floor-to-ceiling openings are *double-glazed* with PPG's SOLEX TWINDOW units. By using fixed instead of operating sash, the architects saved enough money to install—in every room—exhaust fans which draw cool air over the students.

The ground-level administration building (which is protected from the sun) is glazed with huge panels of clear PENNVERNON window glass. All in all, the school is a show place for Pittsburgh Glass, and one of the outstanding schools to be built anywhere in this country.



AMERICAN SCHOOL AND UNIVERSITY—1958-59

PITTSBURGH PLATE GLASS COMPANY



- A** Main entrance. Classrooms are grouped around this "court."
- B** Typical classroom. Children are thrilled by the "treehouse" effect.
- C** Administration building. The daylighting is excellent.
- D** The cantilevered truss system. Note absence of pillar "forest."

Architect:
CHARLES R. COLBERT, A.I.A.
NEW ORLEANS, LA.

CONSULT YOUR ARCHITECT

*for information about the use of these famous
Pittsburgh Glasses in school construction:*

SOLEX®heat-absorbing and glare-reducing plate glass
HERCULITE®shock-resisting tempered plate glass
TWINDOW®the world's finest insulating window
POLISHED PLATE GLASSfor clear, undistorted vision
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— Design your schools better with —
PITTSBURGH GLASS



SYMBOL OF SERVICE FOR SEVENTY-FIVE YEARS
PITTSBURGH PLATE GLASS COMPANY

IN CANADA: CANADIAN PITTSBURGH INDUSTRIES LIMITED

AMERICAN SCHOOL AND UNIVERSITY—1958-59

TRUSCON® STEEL DIVISION REPUBLIC STEEL

1110 ALBERT STREET • YOUNGSTOWN 1, OHIO

Manufacturers of a complete line of steel windows and mechanical operators. Steel joists . . . Metal lath . . . Steeldeck roofs . . . Concrete reinforcing bars . . . Welded wire fabric . . . Steel inserts . . . Residential, Industrial and Hangar steel doors . . . Steel buildings . . . Radio towers.

The Window IS the Wall

TRUSCON VISION-VENT

Vision-Vent is Truscon's exciting new approach to fast, economical construction. It is a complete window wall that incorporates all the mass-production and installation economies of standard steel windows.

Each Vision-Vent unit is complete, with arrangements for glass and insulated steel panel. Window openings may be projected-type ventilators or Truscon Double-Hung Steel Windows. Elements can be varied to meet specific requirements.

Weather-tight Vision-Vent Window Walls are designed to cover entire wall surfaces. Erection is done from inside, and units are easily and quickly installed.

Insulated panels may be colored porcelain enamel or stainless steel. "U" factor is equivalent to that of an ordinary masonry spandrell wall. Less than 1½" thick, they provide extra square feet of floor space. Light weight is reflected in structural savings.

Vision-Vent is recommended for all types

of single- and multi-story buildings. A variety of applications has been engineered to provide simplicity of design, weather resistance, low initial cost, low maintenance cost.

Truscon engineers will be glad to study your requirements and develop details and costs for you and your architects.



Activities Building, Georgia Training School for Girls, Adamsville, Ga., features Heavy-Intermediate Projected Type Truscon Vision-Vent Window Wall. John J. Harte, architect; Abco Builders, contractor.



Belli and Belli, architects and engineers, utilized Vision-Vent construction in circular form for St. Patrick Central High School, Kankakee, Illinois. Vision-Vent Windows are Heavy-Intermediate Projected type.

TRUSCON STEEL DIVISION

These modern schools are Vision-Vented



Vision-Vent Wall with Truscon Series 138 Double-Hung Steel Window in Sedgefield Junior High School, Charlotte, N. C. Sloan and Wheatley, architects; Laxton Construction Co., contractors.

A complete line of Steel Building Products

Vision-Vent is only one of the many items in the Truscon Line—the most complete line of steel building products made by any manufacturer. Every Truscon product is backed by a fifty-year reputation of outstanding service to the building industry.

Truscon Line of Windows includes, heavy-intermediate and commercial projected, steel and aluminum casements, aluminum projected, aluminum awning, steel double-hung, Donovan, and other types for special applications.

Other Truscon building products that help build safer, more efficient, long-lasting, low-maintenance schools are steel joists, metal lath, steel-deck roofs, concrete reinforcing bars, welded wire fabric and steel doors.



Superb daylighting and superior ventilation are provided by Truscon Vision-Vent Window Walls in Suitland Junior High School, Suitland, Md. Paul H. Kea Associates, architects; Southern Commercial Construction Co., contractors.



REPUBLIC STEEL
TRUSCON STEEL DIVISION

Youngstown 1, Ohio



NAMES YOU CAN BUILD ON

AMERICAN SCHOOL AND UNIVERSITY—1958-59

PETERSON WINDOW CORPORATION

710 Livernois Ave., Ferndale 20, Michigan

PARAGON

PROJECTED WINDOWS

Here is an aluminum Projected Window that *really* stands up to rough, tough usage. Designed to withstand abuse and still operate smoothly and consistently, the Paragon is Heli-Arc welded of heavy sections of high grade aluminum. Ideal for classroom, dining hall and auditorium installations, these windows carry top quality white bronze hardware for life-time security.

An exclusive *one plane* weather-stripping "seals shut—like a vault" and the adjustable tension shoes mean easy installation on the job. For superbly designed picture frame appearance with strength, ease of operation and positive closing and sealing, your first choice *has* to be Paragon (a product of the Peterson Window Corporation).



The Paragon series is available in a large variety of arrangements and, special as well as standard sizes. Screens are also available for all vents upon request.

PETERSON HORIZONTAL SLIDING WINDOWS

The first choice at such noted institutions as the University of Michigan, Johns Hopkins, Michigan State University and the University of Rhode Island, among others, Peterson horizontal sliding aluminum windows assure ease of sliding, high style and long life. Their sturdy construction, maintenance-free use and exclusive patented features make Peterson Windows your *only* choice for Dormitory installations.

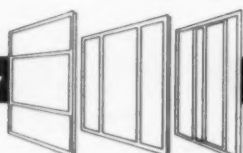
For more information on Paragon Projected and Peterson sliding windows, call, write or wire PETERSON WINDOW CORPORATION, 710 Livernois, Ferndale 20, Michigan.

Here is a typical installation of Peterson Windows in one of the country's largest men's dormitories, on the campus of Michigan State University, E. Lansing, Michigan.



Peterson Window

710 LIVERNOIS AVE.



PARAGON PENGUIN PETERSON

Corporation

FERNDALE 20, MICH.

AMERICAN SCHOOL AND UNIVERSITY—1958-59



VALLEY METAL PRODUCTS COMPANY

PLAINWELL, MICHIGAN

SUBSIDIARY OF MUELLER BRASS CO., PORT HURON, MICHIGAN



PAINCHAUD & RYDER
Architects
F. W. BROWN
Contractor
Photo by Robert L. Perry



THE LAST WORD IN MODERN SCHOOL CONSTRUCTION ... ALUMINUM WINDOWS AND CURTAIN WALLS BY VAMPCO

With today's new concepts of modern school design, architects and builders from coast to coast are turning to Vampco Aluminum Windows and Curtain Walls for full natural lighting, efficient ventilation, modern streamlined beauty, structural strength and durability.

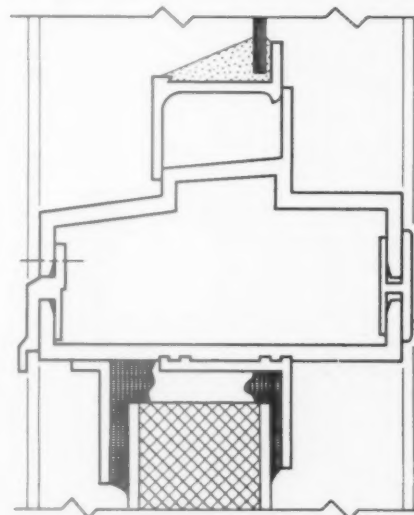
The new Sacred Heart Church School at Groton, Conn., pictured above, is one of the 12,000-plus American school buildings that now have Vampco products of one type or another.

Vampco Aluminum Windows are available in the widest range of types to meet every architectural need. They include: casement, combination casement, awning, intermediate projected, curtain wall of varying sizes and thicknesses, heavy construction, glass block and custom-designed types. Find out how VAMPCO'S special designing service can help you solve your unusual building problems most economically and efficiently. Dept. ASU-58.

write FOR 56-PAGE VAMPCO INDUSTRIAL-
INSTITUTIONAL WINDOW CATALOG AND CURTAIN WALL CATALOG

VAMPCO

See Complete File in Your
Current Sweet's Catalog



VAMPCO 200 SERIES CURTAIN WALL

VAMPCO HEAVY SECTION CUSTOM WINDOWS CAN BE DESIGNED FOR EITHER INSIDE OR OUTSIDE GLAZING AND TO TAKE ANY TYPE OR SIZE OF GLASS UP TO $\frac{3}{4}$ " THICK.

A NAME THAT MEANS THE VERY FINEST IN LIFELONG ALUMINUM WINDOWS

COLUMBUS COATED FABRICS CORPORATION

Dept. U-58, Columbus, Ohio



Bexley High School, one of many Bontex installations

Bontex window shade cloth

Unusual quality, beauty and durability are built into Bontex Shade Cloth. Made in types to control light properly for every school need. For classrooms, studyrooms where maximum soft, diffused light is needed . . . for showing slides and films and for laboratory work where partially or completely dark rooms are required.

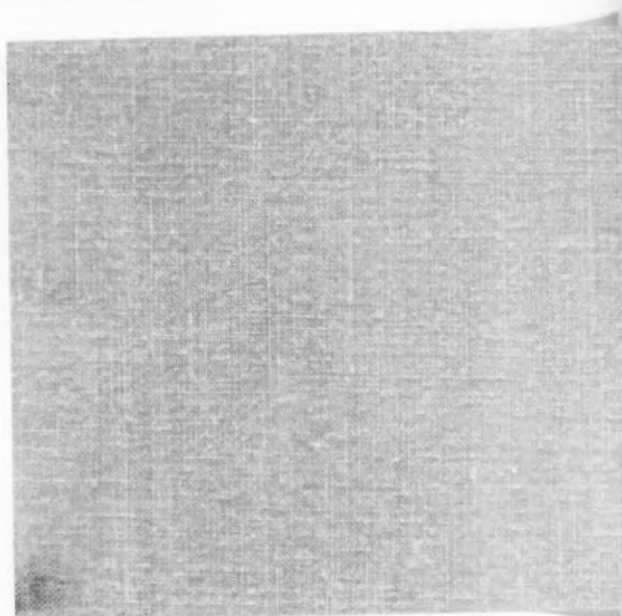
Takes hard punishment. Bontex is a high-thread-count shade cloth, uniformly woven and fused with pyroxylin or vinyl for extreme toughness and durability under hard use and careless handling. Sheds rain, snow, wind—will not pinhole, fray or crack.

Scrubbable, colorfast. Bontex Shade Cloth has been thoroughly tested in impartial laboratories for breaking strength, scrubability and color fastness. In these tests and in over 25 years of hard service in schools, hospitals, hotels and other buildings, Bontex has proved its durability and economy.

Easy, low-cost maintenance. Beautiful, waterproof Bontex finishes repel dust and dirt. Bontex requires fewer cleanings, keeps its original beauty though scrubbed with soap, water and a brush 20 times or more. Surpasses Government Specification CCC-C-521b TYPE III & IV. Approved for use in such metropolitan school districts as Chicago, Philadelphia, St. Louis, Minneapolis.

Real Economy. Bontex quality means longer life, reduced maintenance expense, fewer window shade replacements. Whether for new shades or replacements, the cost of measuring, cutting and installing is fixed. Any cut in cost means a cut in the quality of the shade cloth. Bontex quality is an investment in extra years of service.

Many Types of Bontex. They include Room Darkening Shades for partial darkening, Bontex Black which excludes all light, Flame Resistant Bontex (its fire retardant materials won't wear out or wash out).



Bontex® TEST SWATCH

Flame Retardant Test. Hold a lighted match to this swatch—see how it resists flame. Meets rigid specifications of Boston Fire Department.

Boiling Water Test. Place swatch in boiling water for 30 minutes. Remove, twist it, crush it, then hold it to light. Positively no fading, pinholing, cracking, fraying.

Write for Sample Book

Shows the complete Bontex range—solid and duplex colors, including white, cream, tan, green, black. Corded designs. Decorative and utility shades for schools and every type of building. Free to school officials and architects on request.



Guard Heavy-Duty Vinyl Wall Covering

The first heavy-duty vinyl wall covering designed specifically for hard-use wall areas . . . for walls where tile is commonly used. Guard cuts cost and maintenance . . . is resistant to scuffing stains, flame . . . can be scrubbed over 40,000 times without harm. Write for name of your nearest Guard distributor.

Wall-Tex Washable Wall Canvas

Makes schoolrooms more pleasant, school work more efficient. Coatings and oil color designs are baked on for extra durability. Beautiful Wall-Tex colors are scrubbable, colorfast. Canvas backing prevents or conceals plaster cracks. Pre-trimmed, easy to hang. Write for name of nearest Wall-Tex Distributor.

ECONOMICAL PRACTICAL

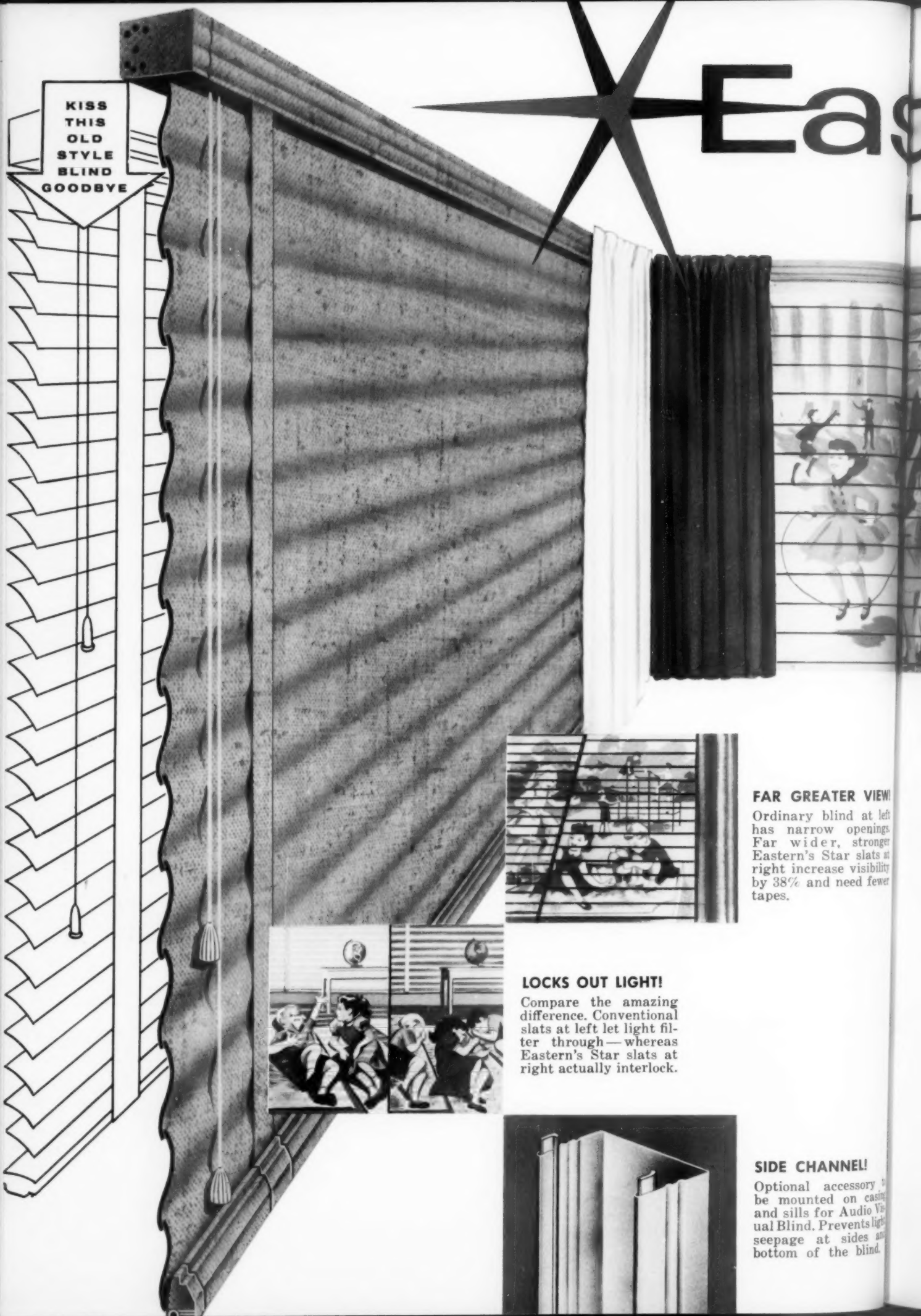
LIGHT CONTROL

VENETIAN BLINDS BY



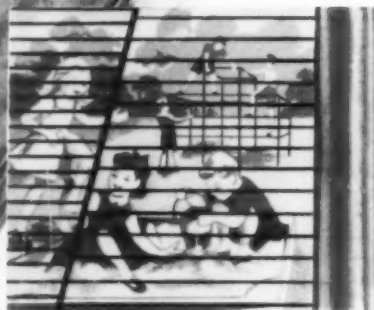
KISS
THIS
OLD
STYLE
BLIND
GOODBYE

East



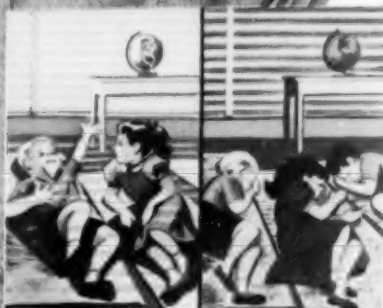
FAR GREATER VIEW!

Ordinary blind at left has narrow openings. Far wider, stronger Eastern's Star slats at right increase visibility by 38% and need fewer tapes.



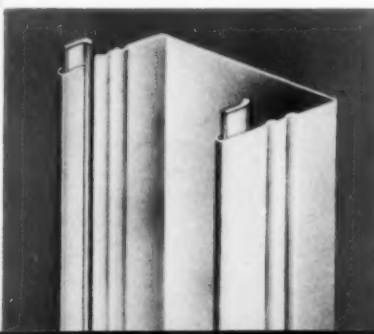
LOCKS OUT LIGHT!

Compare the amazing difference. Conventional slats at left let light filter through—whereas Eastern's Star slats at right actually interlock.



SIDE CHANNEL!

Optional accessory can be mounted on casing and sills for Audio Visual Blind. Prevents light seepage at sides and bottom of the blind.



Eastern's Star

LIGHT CONTROL VENETIAN BLINDS

**Made with wider, stronger
"S" shaped slats. Give
greater visibility when open,
full closure when shut.**

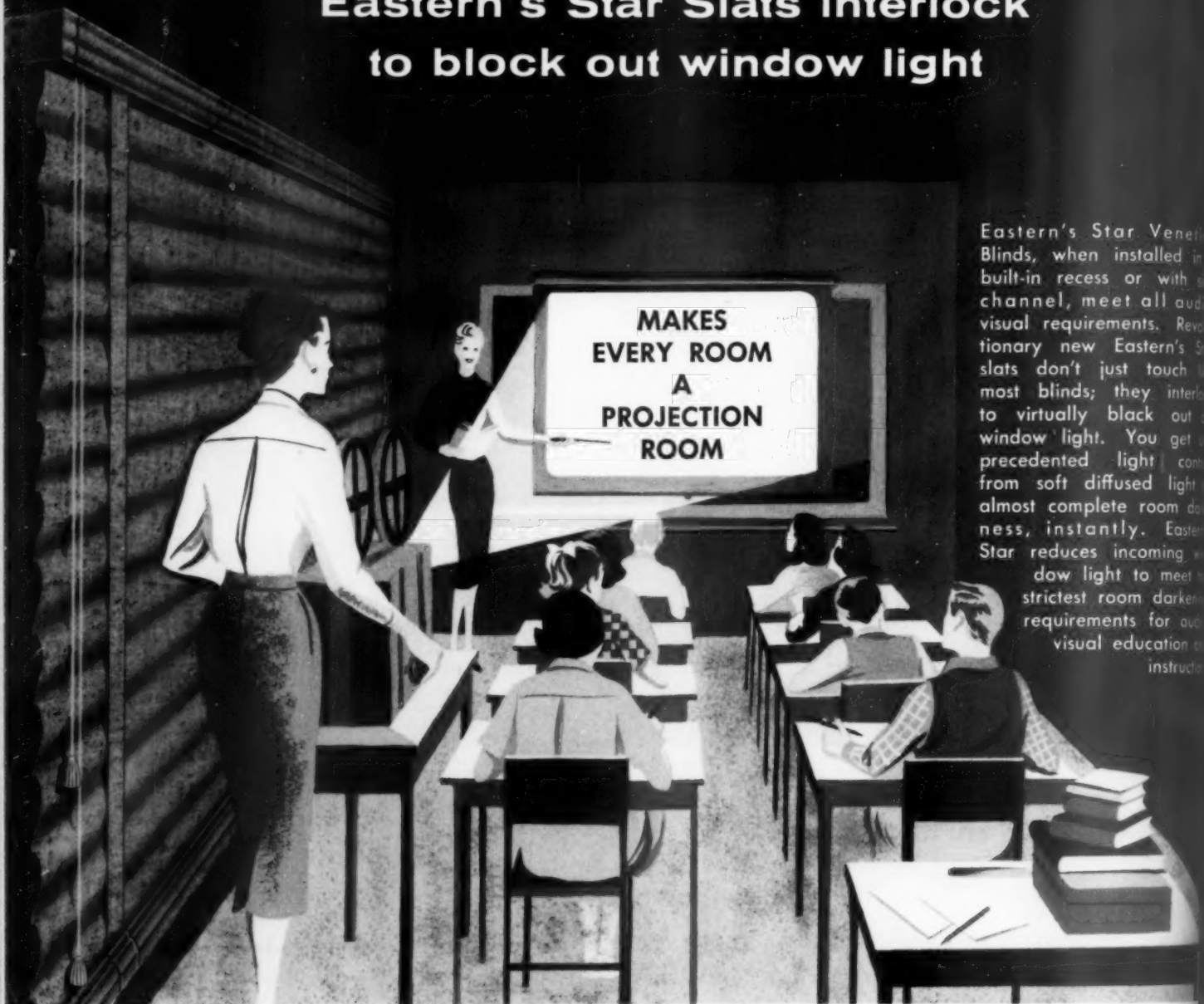
MEETS ALL AUDIO-VISUAL REQUIREMENTS

Eastern's Star eliminates that "slatty" appearance to which so many people object. Look at the illustrations on the opposite page. All the difference in the world between Eastern's Star and an ordinary venetian, isn't there? Eastern's Star's new S-shaped, double-arc slats flow together—actually look like "one piece". Your eye can scarcely detect where one slat ends—and the next begins. And how functional Eastern's Star is, too. Its S-shaped slats give you complete privacy and maximum darkness when closed—38% more visibility when open—softer, more restful light when tilted.

THE ONLY VENETIAN BLIND THAT NEVER NEEDS WASHING!

Only Eastern's Star is finished with Du Pont Ludox . . . amazing new soil retardant. Dirt simply can't cling to the Du Pont Ludox surface. Incredibly smooth, far smoother than glass, it locks out dust, spots and stains. . . literally slides dust off through normal tilting of the blind. This new finish will reduce your maintenance costs considerably.

Eastern's Star Slats interlock to block out window light



Eastern's Star Venetian Blinds, when installed in a built-in recess or with side channel, meet all audio-visual requirements. Revolutionary new Eastern's Star slats don't just touch like most blinds; they interlock to virtually block out all window light. You get an unprecedented light control from soft diffused light to almost complete room darkness, instantly. Eastern Star reduces incoming window light to meet the strictest room darkening requirements for audio-visual education or instruction.

COMPLETE ARCHITECTURAL SERVICE AVAILABLE TO YOU

Eastern's Engineering Department is at the service of Architects, Contractors and Engineers who have unusual or difficult venetian blind problems. Sales Engineers are available in every major market for consultation and for assistance with installation or specification

problems. Shop drawings, complete architectural specifications as well as detailed installation drawings are available on request. Write, wire or call the nearest Eastern branch warehouse or contact our Baltimore Office.



EASTERN PRODUCTS CORPORATION

General Offices & Plant: 1601 Wicomico Street, Baltimore 30, Maryland. Phone: EDmondson 6-4910.

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PITTSBURGH BRANCH—
208 Corey Ave., Braddock, Pa.
Phone: Electric 1-3053

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5061 Cote de Liesse Road
Phone: Riverside 4-3000

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111 Ronald Ave.,
Phone: Russell 1-5291

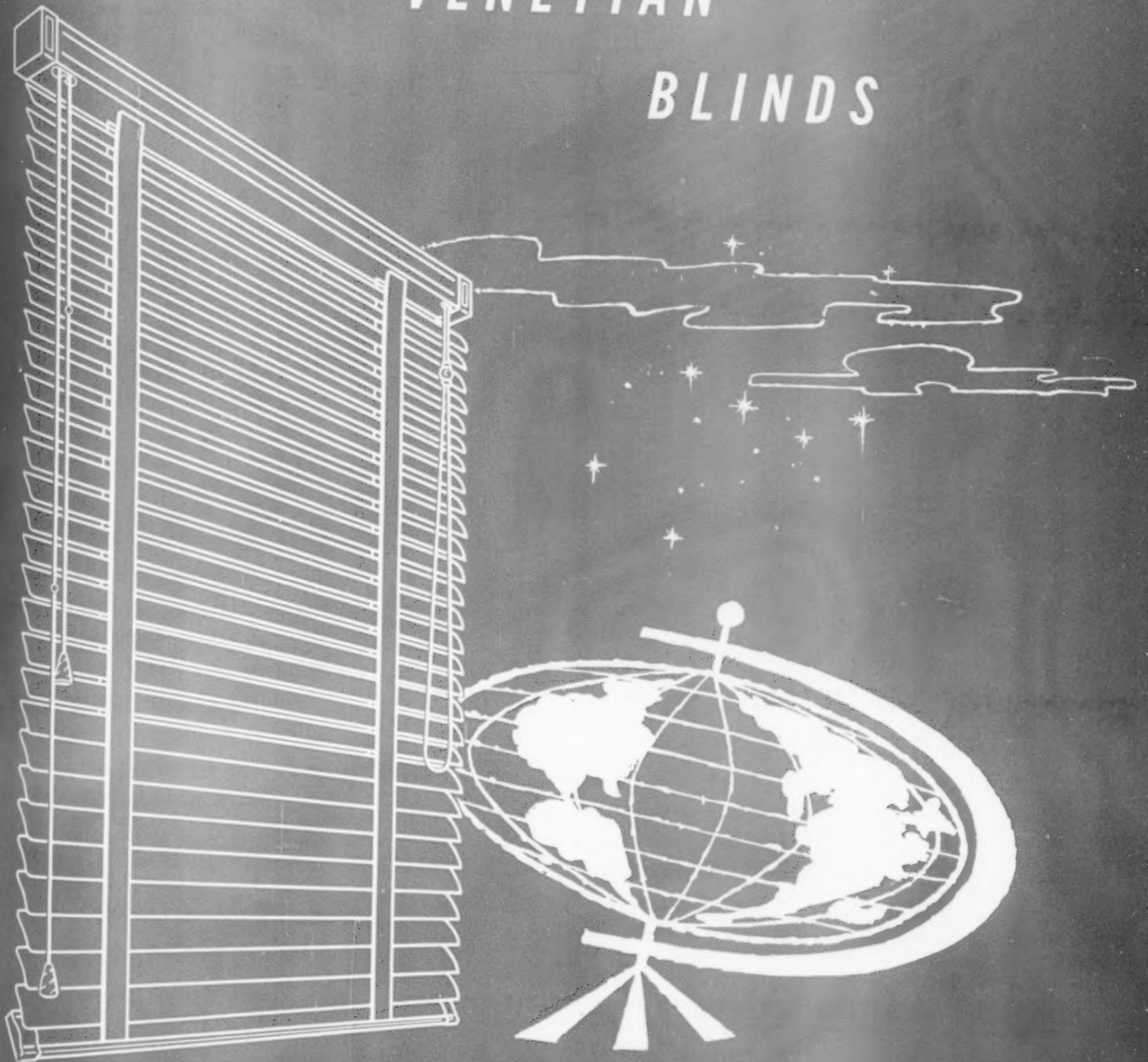
VANCOUVER, B.C. (CANADA) BRANCH—

325 W. 6th Avenue
Phone: Dickens 1514

LEVOLOR

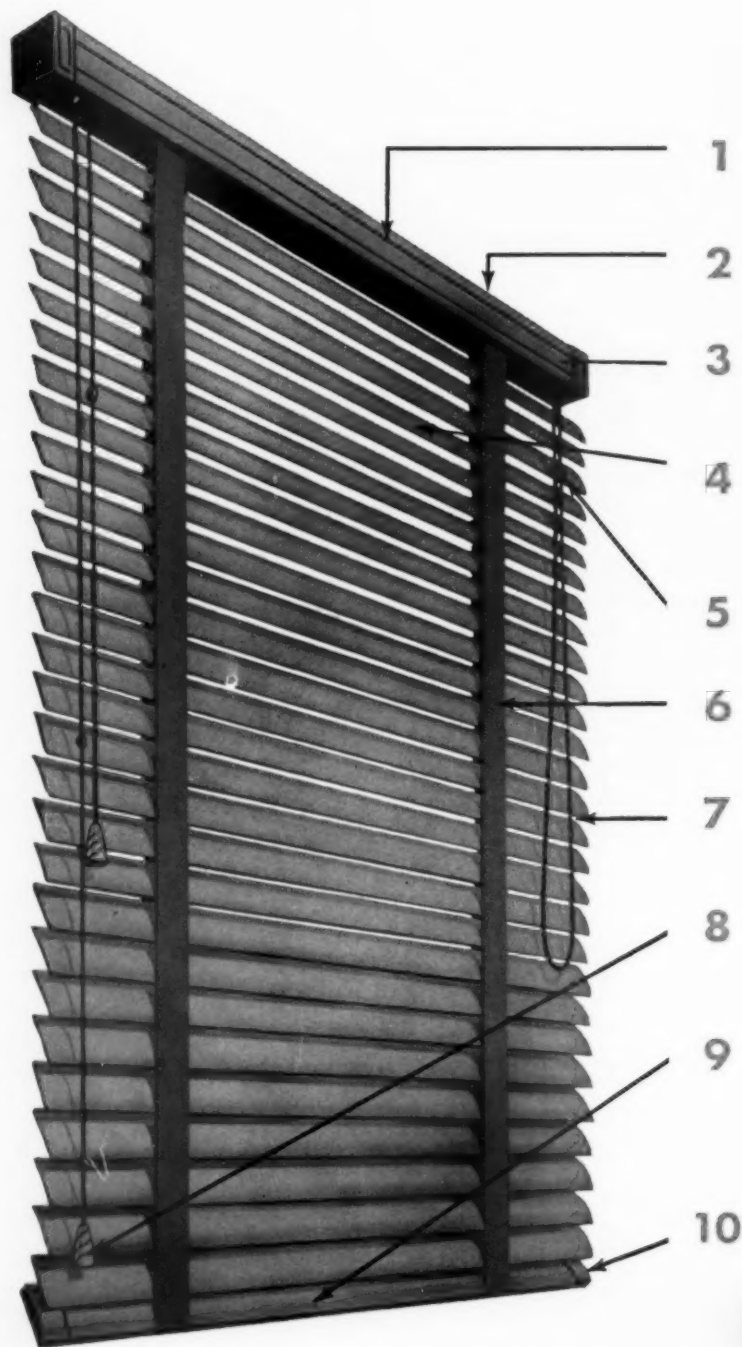
VENETIAN

BLINDS



LEVOLOR

VENETIAN BLINDS



LEVOLOR VENETIAN BLINDS ARE IDENTIFIED BY

- | | |
|---|------------------------------|
| 1. IDENTIFYING STRIPE—BLUE OR ORANGE. | 5. MEDALLION CORD EQUALIZER. |
| 2. PRECISION MADE HARDWARE. | 6. LEVOLOR PLASTIC TAPE. |
| 3. HEAVY GAUGE HEAD CHANNEL. | 7. LEVOLOR NYLON CORD. |
| 4. LEVOLOR VIRGIN ALUMINUM ALLOY SLATS. | 8. SPIRAL DESIGN TASSELS. |
| | 9. TRIPLE "U" BOTTOM BAR. |
| | 10. SPIRAL DESIGN END CAPS. |

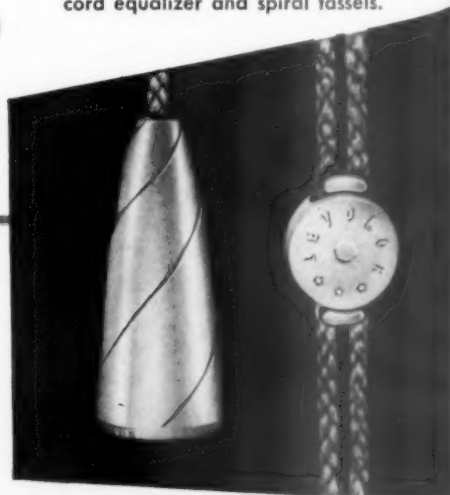
THE LEVOLOR BEST GRADE (Blue Line)

The LEVOLOR Best Grade is better than any other blind on the market with the exception of the LEVOLOR Heavy Duty blind. The components of the LEVOLOR Best Grade should be carefully compared to the best grades of other manufacture to verify this fact. The LEVOLOR Best Grade is a sturdy blind and can be specified with confidence. However, it must be borne in mind that it is not the equal of the Orange Line blind which is a special Heavy Duty blind.

THE LEVOLOR HEAVY DUTY (Orange Line)

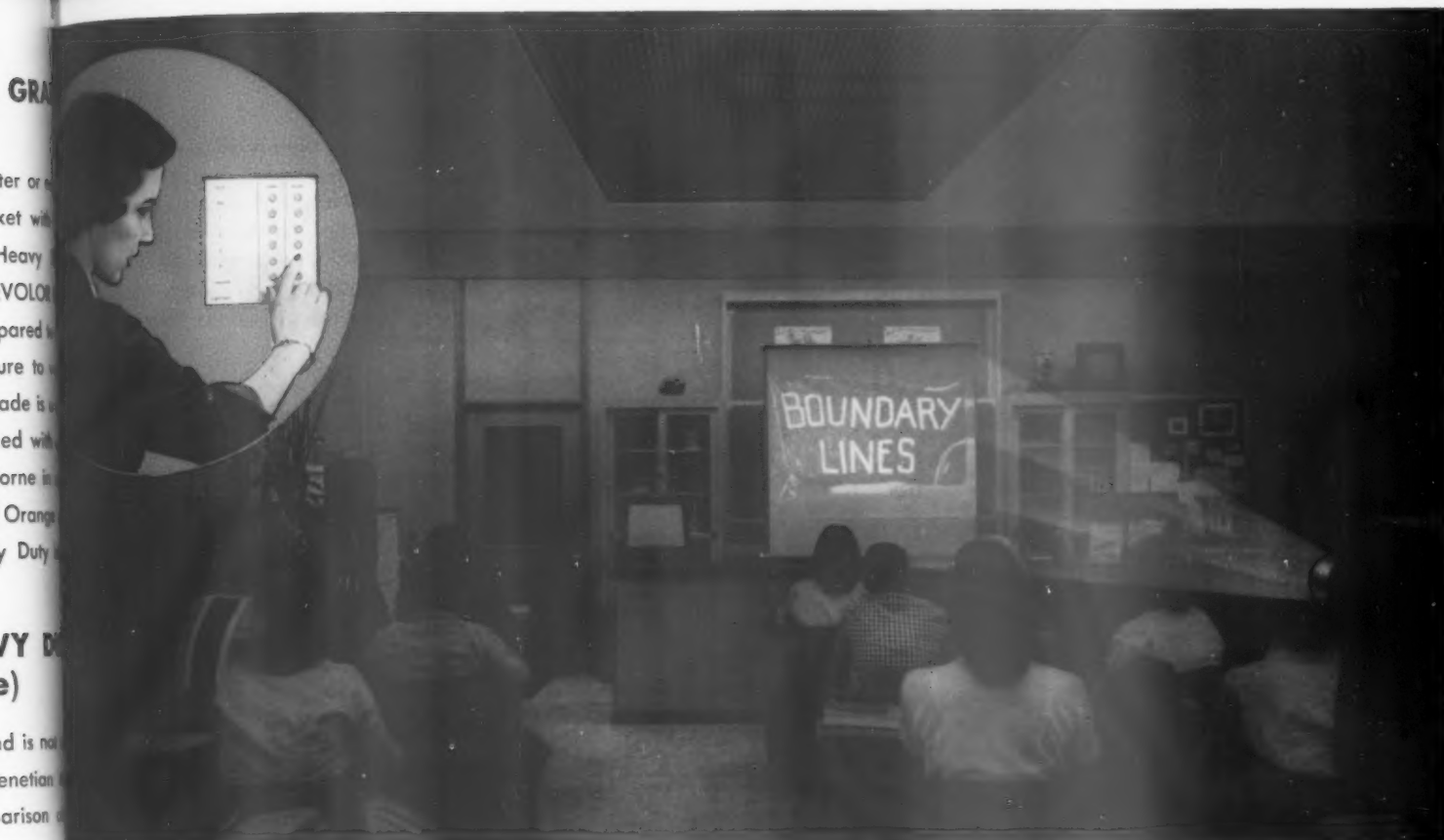
The LEVOLOR Heavy Duty blind is not to be confused with conventional venetian blinds on the market today. Comparison of components will verify this statement. It has been designed for heavy duty and we recommend that the architect specify this blind for schools, hospitals, hotels and other buildings subjected to hard use. The head channel is an important factor. Where wide blinds are used it is a necessity.

All genuine LEVOLOR blinds are equipped with the medallion cord equalizer and spiral tassels.



THE LEVOLOR

SKYLIGHT BLIND



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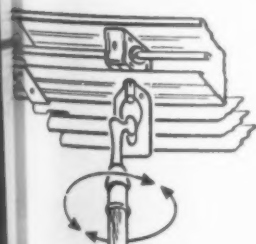
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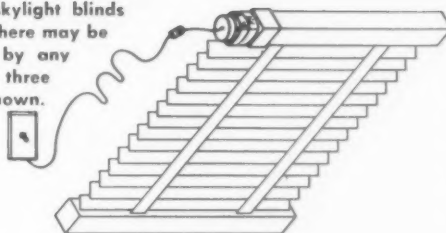
igned for overhead control of day-
t, this versatile blind may be motor-
ed, conventionally controlled, or
ipped to be controlled with the stand-
window pole. The greatest advantage
audio-visual use lies in the motorized
it, however, LEVOLOR should be con-
trolled before specifications are written
a motorized Skylight blind.

CONTROL OF SKYLIGHTER WITH WINDOW POLE



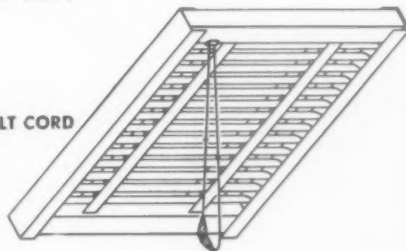
Cords are elimi-
nated with this
type of control. Any LEVOLOR
skylight blind
can be con-
trolled to tilt in
either direction
by simply twist-
ing the pole.

All three skylight blinds
illustrated here may be
controlled by any
one of the three
methods shown.

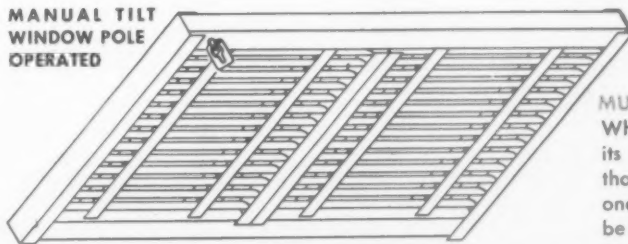


MOTOR TILT DRIVE

MANUAL TILT CORD
OPERATED



MANUAL TILT
WINDOW POLE
OPERATED



THE SKYLIGHTER WITHOUT SIDE FRAMES

The "Skylighter" shown at the left is
constructed with two heads and is held
rigid by its installation. The non-rigid
type is economical and can be specified
where the skylight well, framing or
ceiling can support the weight of the
blind.

TIGHT CLOSURE RIGID SKYLIGHTER WITH SIDE SHIELDS

The "Skylighter" with side shields is
necessary in some types of installations,
but in all cases, installation is greatly
simplified by the rigid frame especially
where the skylight frame is not adequate.

MULTIPLE BLINDS FROM ONE HEAD
When the skylight is larger than the lim-
its for a single size blind, then more
than one blind section can operate from
one head or more than one blind should
be used.

VOLOR LORENTZEN, INC., 720 Monroe Street, Hoboken, New Jersey

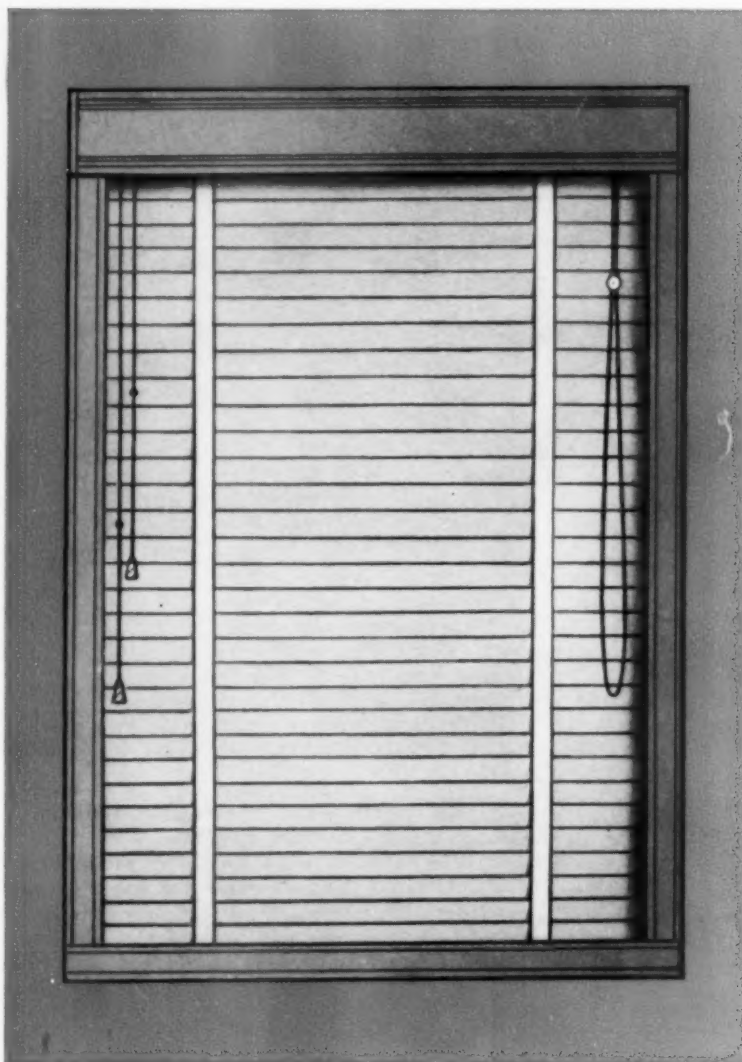
boken, New

Copyright 1958

Printed in U.S.A.

THE LEVOLOR A. V. BLIND

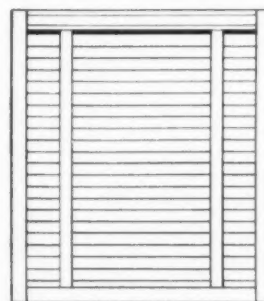
FOR AUDIO-VISUAL TEACHING



The Levolor A.V. Blind with 7 inch Fascia and Light Shields

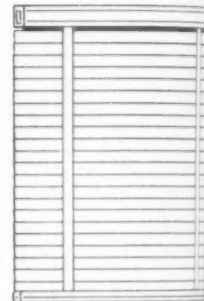
The field of audio-visual education is still new and ideas of room darkness are many and varied, but it is pretty well accepted that light toleration varies according to the projector, the subject and the activity of the student. When installed with light shields and light seal, the LEVOLOR Audio-visual blind can fulfill any requirement quickly and easily converting all rooms for audio-visual instruction.

The LEVOLOR A.V. Blind is available in three variations: With Fascia and light shields, with light shields and light seal and with light seal only. Basic construction is identical but note should be taken of this variation when specifying.



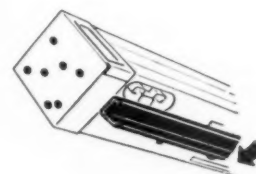
LIGHT SHIELDS AND SEAL

Gives optimum darkness and eliminates the 7 inch fascia.

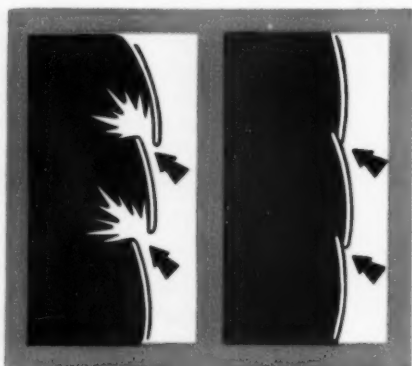


WITH LIGHT SEAL ONLY

Does not give optimum darkness but is considered ample by most educators.

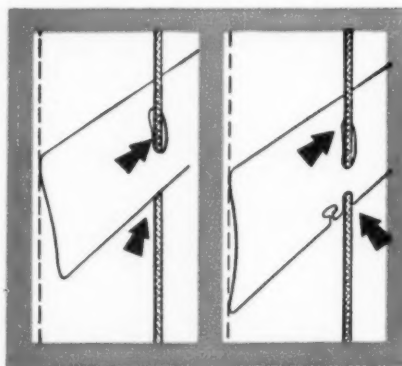


The light seal is attached directly to the head channel to stop light infiltration. When no fascia is used light seals must be specified.



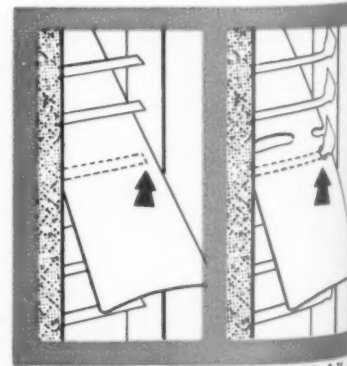
CONVENTIONAL LEVOLOR A.V.

A conventional blind does not close fully while a LEVOLOR A.V. Blind has a generous overlap and full closure to stop light infiltration.



CONVENTIONAL LEVOLOR A.V.

Cord arrangement in the conventional blind stops the slats from overlapping while the off center rout hole and notch allows the LEVOLOR A.V. Blind to close snugly.



CONVENTIONAL LEVOLOR A.V.

Conventional tape ladders are spaced wider and the slat lies loosely on the tape ladder. In a LEVOLOR A.V. Blind, the tape ladder is T shaped and locks into the hole in the slat for proper lift and full closure.

B INTERIOR FINISH

1. Flooring

Azrock Floor Products Division, Uvalde Rock
Asphalt Company
The Jennison-Wright Corporation
Congoleum-Nairn Inc.
International Paper Company, Long-Bell Division

B-1/Az
B-1/Je
B 201
B 204

2. Stair Treads

American Abrasive Metals Co.
American Mason Safety Tread Co.
Melflex Products Company, Inc.
The R. C. Musson Rubber Co.
Wooster Products Inc.

B 202, 203
B 205
B 206
B 207
B 208

3. Wall Tile

Monarch Tile Manufacturing, Inc.
Natco Corporation

B 210, 211
B 209

4. Acoustical Materials

The Celotex Corporation

B 212

5. Partitions

Superior Wire & Iron Products
The Sanymetal Products Company, Inc.
Torjesen, Inc.
Wayne Iron Works

B-5/Su
B 214, 215
B 213
B 216

6. Chalkboards, Tackboards & Wall Equipment

W. R. Ames Company, Bookstack Division
Beckley-Cardy
The Brunswick-Balke-Collender Co.,
Moduwall Live-Wall
Claridge Products and Equipment Incorporated
Inland Steel Products Company
Pennsylvania Slate Producers Guild, Inc.

B-6/Am
B-6/Be
B-6/BBC
B 217
B 218
B 219

7. Wardrobes

A. R. Nelson Co., Inc.
Vogel-Peterson Co.

B-7/Ne
B-7/Vo

8. Builders' Hardware & Specialties

Glynn-Johnson Corporation
The Oscar C. Rixson Company
The Yale and Towne Manufacturing Company,
Yale Lock and Hardware Division
Buffalo Products Co.
Corbin Wood Products Division, The American Hardware Corporation
Cutler Mail Chute Company
Norton Door Closers
Vonnegut Hardware Co., Von Duprin Division

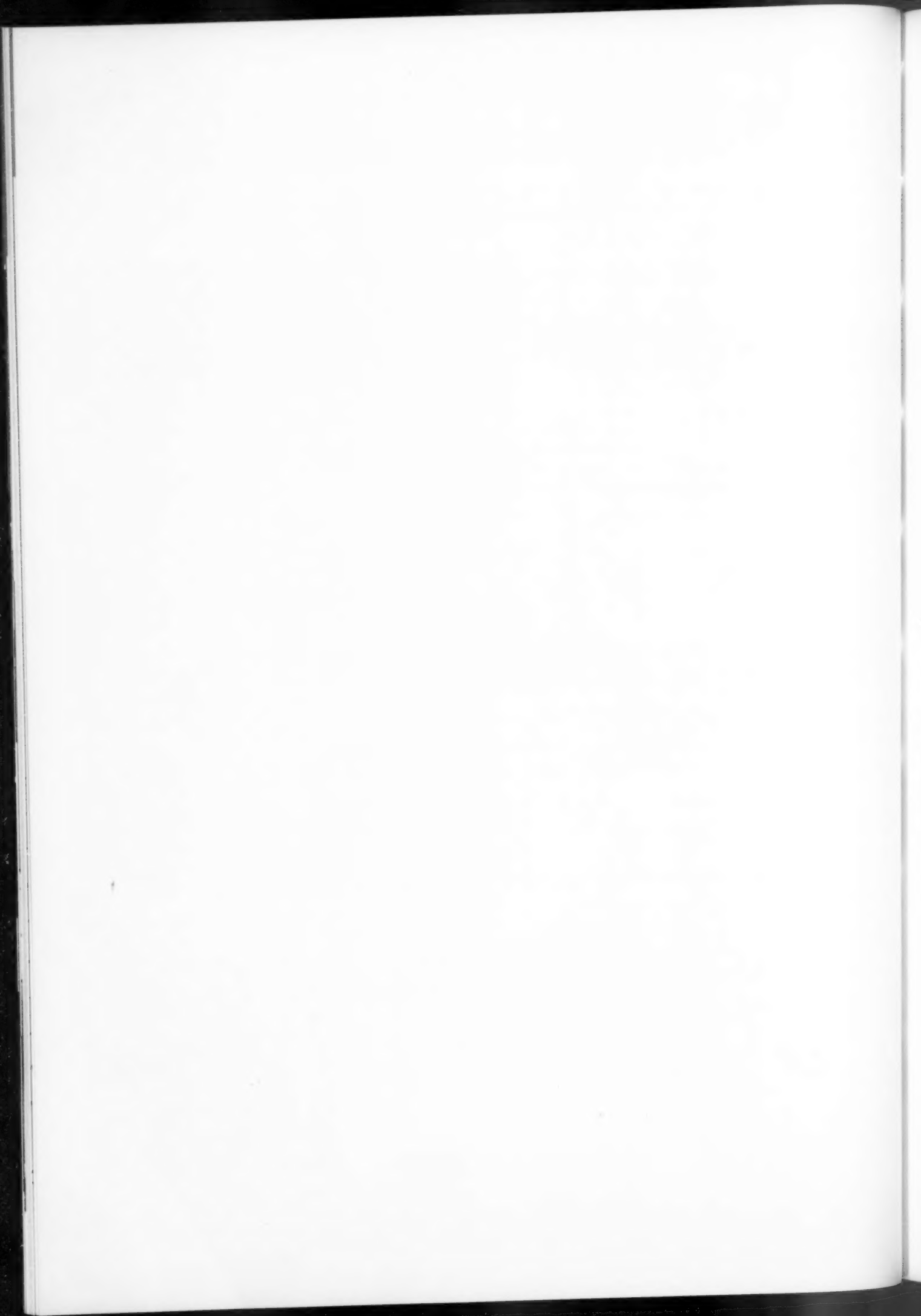
B-8/Gi
B-8/Ri
B-8/Ya
B 220
B 223
B 224
B 221
B 222

9. Tablets, Plaques, Name-Plates

Lake Shore Markers, Inc.
McGann Bronze Incorporated
Meierjohan-Wengler
The Michaels Art Bronze Co., Inc.

B 225
B 228
B 226
B 227

Note: Manufacturers represented with complete catalogs are listed in bold face.



"FLOOR-PLANNED" for the Modern School!



Vina-Lux®

REINFORCED VINYL TILE

AZROCK®

ASPHALT TILE

AZPHLEX®

VINYLIZED TILE



...Makers of fine floors for over 25 years



Vina-Lux offers the advantage of built-in resistance to common chemicals, used in school laboratories.

Vina-Lux®

REINFORCED VINYL TILE

Vina-Lux adds beauty, smartness and "top-drawer" appearance to lobbies, community rooms, libraries and other dress-up areas of the modern school. In 19 stunning marble tones with exclusive *Micromatic veining*, 10 gay terrazzo tones, two solid colors, it offers unrivaled variety, and decorative appeal.

Vina-Lux floors clean easily without hard scrubbing, seldom need waxing. Ordinary damp mopping plus regular dry buffing keeps Vina-Lux looking new and bright with minimum care, minimum cost.

Vina-Lux, reinforced with asbestos, has stubborn resistance to indentation — a resilience that adds surprising comfort underfoot — a dense, interlaced structure that means years of extra wear. Although its initial cost is slightly higher, Vina-Lux costs less per square foot per year than any other type of resilient flooring.

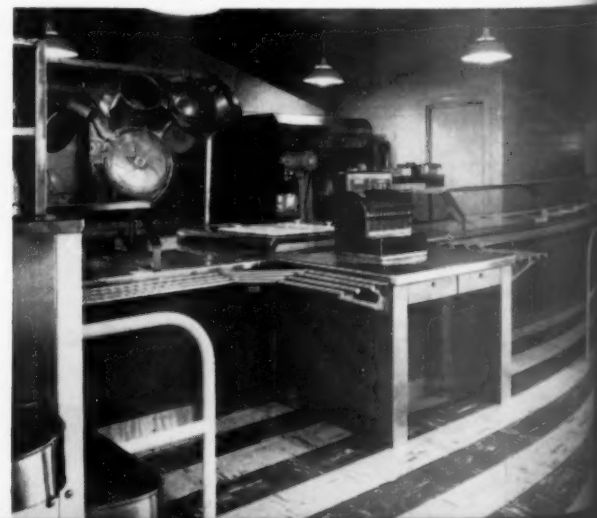
SPECIAL CHARACTERISTICS:

- Dense, closely textured surface makes maintenance simple and easy without waxing.
- Greaseproof against commonly used petroleum oils and greases as well as food fats and oils.
- Good resistance to most commercially used acids and alkalis.
- High flexural strength so that Vina-Lux may safely be installed over sound wood subfloor.
- Excellent resistance to indentation. Vina-Lux shows less indentation than asphalt tile plus the fact that it has some recovery from indentation.
- Unaffected by moisture on or below grade. Can be installed safely over concrete subfloors on or below grade.
- Unusual resistance to abrasive wear, giving years of additional floor service.
- A safe, non-slip surface either with or without wax.

Vina-Lux is ideal for use in areas subject to heavy usage such as the classroom shown below.



Hot cooking fat, food greases and kitchen traffic have no detrimental effect on this beautiful, sanitary Vina-Lux floor in the school kitchen.

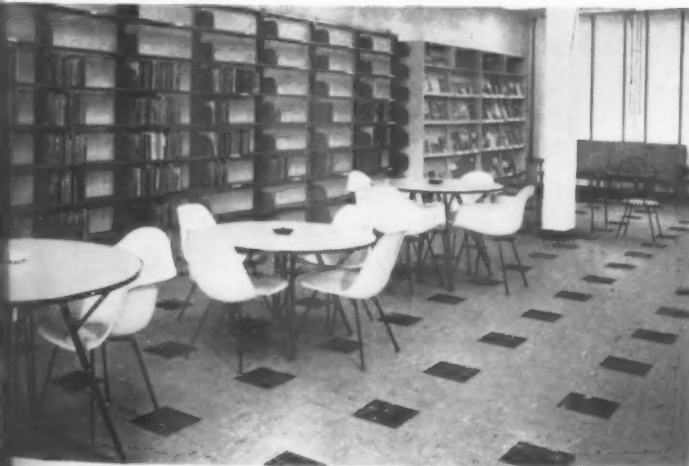




Above: Azrock provides this classroom with a bright, attractive floor with light-reflecting colors that help children study better.

Center: Lighter, brighter colors make Azrock a frequent choice for school libraries.

Bottom: Azrock is built to take the severe punishment you will find in corridors like this.



AZROCK[®] ASPHALT TILE

School traffic and usage constitute a rugged test for any type of flooring. Only a real tough floor can withstand the scuffing, pounding traffic of school children. Azrock asphalt tile is the answer. It's a better asphalt tile, with a smoother, easier-to-clean surface, and with excellent resistance to alkali and moisture. Yet, Azrock costs no more than ordinary asphalt tile.

Azrock has been used widely in all types of school buildings for more than twenty years. Many of these floors are still serving today — still retain their good looks. They are a strong testimonial to the merits of Azrock as a long-wearing, economical, easy-to-clean floor.

Azrock is made in a wide variety of 34 attractive marble tones, terrazzo tones and cork colors. Wherever school floors call for low first-cost plus long wear, Azrock fills the bill.





Vinylized Azphlex adds beauty and low-cost maintenance to this combination auditorium and cafeteria.

AZPHLEX[®]

VINYLIZED TILE

Here is a brand new concept in thermoplastic tile flooring. The magic of vinyl resin has been added to Azphlex to give it added grease resistance, brighter colors, smoother surface, and greater resistance to abrasive wear. Azphlex is the only tile in its price class that offers all of these qualities.

Here indeed is the perfect answer to the problem of what flooring to use in domestic science and home economics classrooms, school cafeterias, lunch rooms, and any other areas where food is prepared or served. Azphlex is available in 22 colors — in both marble and terrazzo tones — that are adaptable to modern school decor.

School architects are also specifying Azphlex for classrooms, auditoriums and corridors because Azphlex means lower maintenance cost and greater light reflectance — both essential to modern school programs.

SPECIAL CHARACTERISTICS:

- Resists both food fats and petroleum greases and oils.
- Good flexural strength permitting installation in $\frac{3}{8}$ " and $\frac{1}{8}$ " thicknesses over properly constructed wood sub-floors.
- Can be installed on or below grade on concrete sub-floors because it is not affected by moisture.
- Possesses unusual durability because of its dense structure.
- The smooth surface of Azphlex makes maintenance simple and economical.
- Excellent resistance to alkali both from soaps and cleaners used in maintenance, and alkaline moisture which may be present in concrete sub-floors.

Ask us for color charts showing the full range of colors available in Azrock Floor Products. In addition, a list of schools and institutions which have used Azrock Floor Products is available to school administrators and architects on request.



AZROCK FLOOR PRODUCTS DIVISION

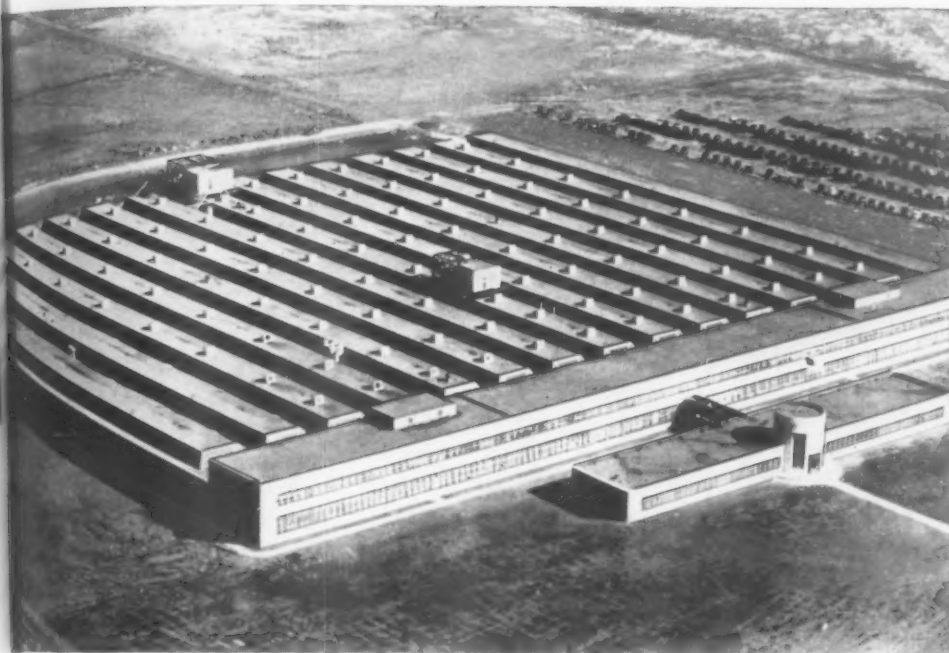
UVALDE ROCK ASPHALT COMPANY

Frost Bank Building • San Antonio, Texas



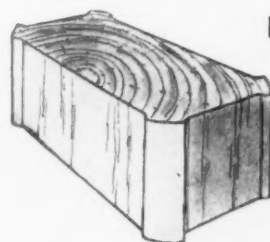
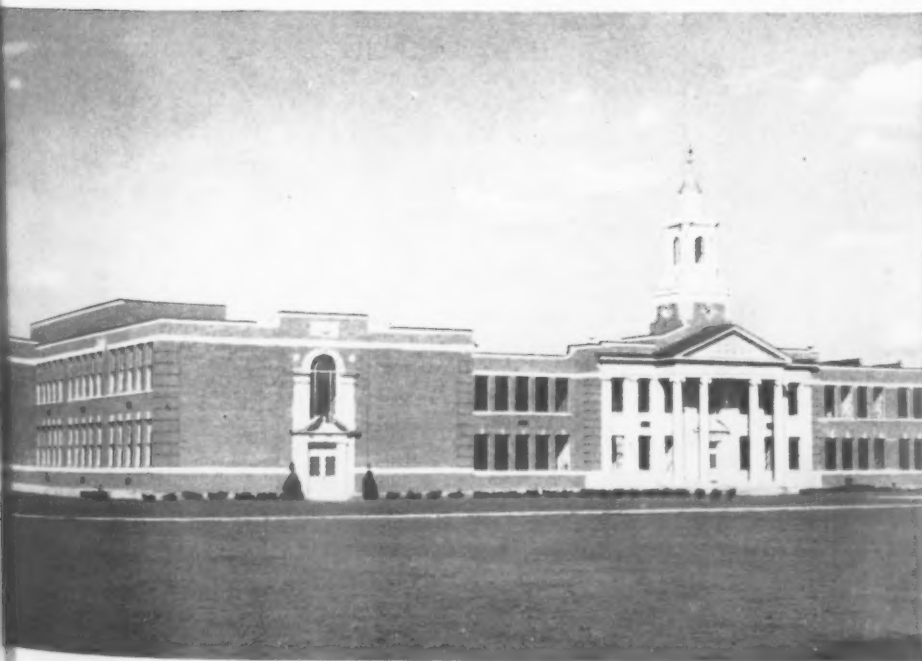
KREOLITE FLOORS

durable end grain wood block flooring



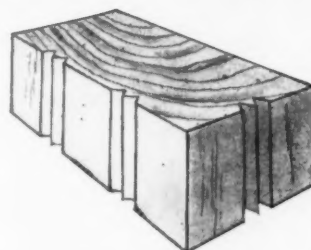
Curtiss-Wright plant, Caldwell, New Jersey—Albert Kahn, architect

Williamsville High School, Buffalo, New York—Bley & Lyman, architects

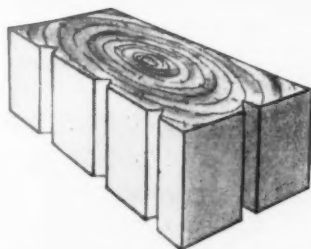


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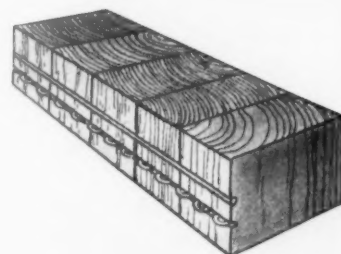
▲ bevelug



▲ kountersunk lug



▲ grooved



▲ flexible strip



THE JENNISON-WRIGHT CORPORATION • TOLEDO 9, OHIO

KREOLITE FLOORS

Kreolite wood block flooring, smooth, durable, for both heavy and light duty industrial use, is designed to meet the requirements of all types of production facilities.

The basic theory of wood block flooring is the "chopping block." The ancients used the end grain of logs to absorb and withstand the heavy blows of hammer and knife, until end grain wood became a byword for toughness. The ability of end grain wood to resist splintering, combined with the fact that heavy blows and abrasion merely mat down the surface fibers, are factors substantiating this reputation.

End grain wood blocks were first used in street paving. The blocks were usually from 3½ to 4 inches in depth, and were noted for their durability under heavy traffic. It was found that, protected from weather, this same quality prevailed when used for industrial flooring and that the depth of the blocks could be materially reduced without reducing the durability. This reduction in depth brought the cost of the flooring down sufficiently to be in a price range appealing to all industries.

Utilizing this factor and advanced technological data, the Jennison-Wright Corporation, manufacturer of wood block flooring since 1911, now offers four types of end grain wood block flooring suitable for a wide range of service.

advantages

- quick installation, immediate use
- low maintenance cost, economical repair
- low tractive resistance, comfortable under foot
- dustless
- noise and vibration absorbent
- resilient
- insulation against heat and cold
- spark-proof and skid-proof
- firm foundation for machinery
- durable, withstands heavy abuse

building types

Kreolite Kountersunk Lug—for heavy or light industrial service, inside or out.

Kreolite Bevelug—for general industrial use.

Kreolite Grooved—for heavy or light interior industrial use.

Kreolite Flexible Strip—for printing plants, schools, drill halls, gymnasias, etc.

KREOLITE Jennite

Kreolite Jennite, a water-and-oil resistant bituminous filler, is used exclusively on Kreolite creosoted wood block flooring. It is recommended for use as a final filler and finish for all Kreolite Class I and Class II wood block flooring construction. It is also recommended for use in the rejuvenation of old wood block floors, improving their service and appearance as well as prolonging their life.

A coal tar pitch emulsion, consisting of an irreversible colloid composed of a heavy closed ring hydrocarbon base dispersed in water, Kreolite Jennite has none of the objectionable characteristics of ordinary filler. It does not become soft and tacky under high temperatures.

Kreolite Jennite is applied with a hand squeegee without heating, after the initial sealing with Kreolite hot pitch. This leaves a finish which is smooth, but not slippery, providing good traction to truck tires and a firm, safe foothold to workmen. It is oil resistant and does not soften in temperatures up to 275°F. Light materials, such as paper and bits of string, will not stick to its surface.

KREOLITE Seal-(W)right

Kreolite Seal-(W)right when applied over Kreolite Jennite or Kreolite Pitch Filled Wood Block Floors:

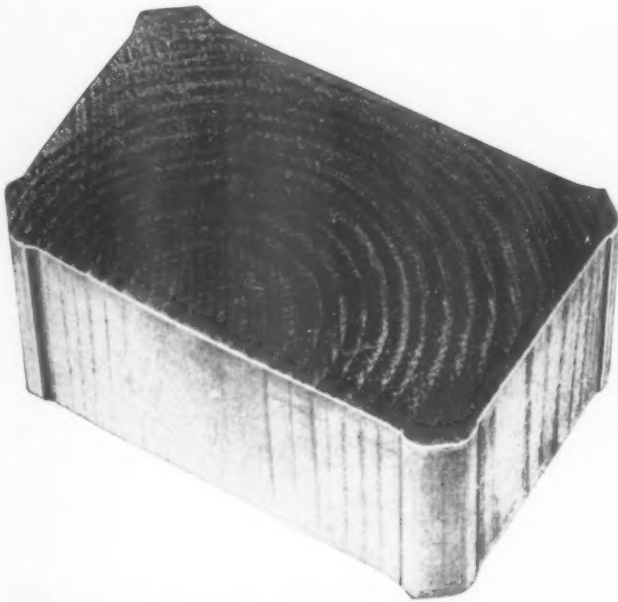
1. Gives lustrous finish which can be waxed and polished.
2. Reduces cleaning costs.
3. Seals against penetration of oil and cutting compounds.
4. Reduces the use of oil drying compounds.
5. Will make old floors look new.
6. Permits use of color paint for aisle-marking.
7. Improves morale of employees by better house-keeping.

KREOLITE Pallets

All blocks with the exception of the flexible strip type can be palletized if the client requests us to do so.

KREOLITE Bevelug type

Patent Pending



Famous Kreolite innovations and improvements in creosoted wood block industrial flooring have been—successively:

1. Kreolite Lug Blocks
2. Kreolite Grooved Blocks
3. Kreolite Kountersunk Lug Blocks
4. Kreolite Bevel Corner Blocks
5. Kreolite Bevelug Blocks This latest design combines the advantages of all four of the above types.

Kreolite Bevelug Blocks: Note they are designed to provide for the use of a seal coat for top, bottom and four sides of each unit; thus by a thorough seal, offering best possible protection against loss and absorption of moisture, reducing to a minimum both shrinkage and expansion.

They are treated with Kreolite creosote oil injected under pressure.

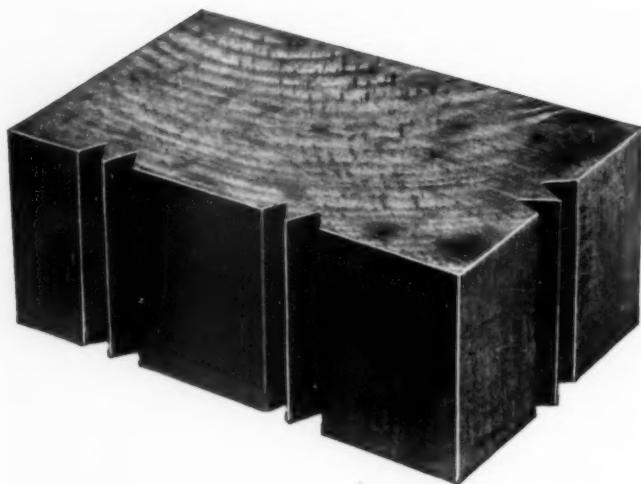


Over 234,000 sq. ft. of Kreolite Bevelug wood block floor recently installed in the latest addition to the Brookfield, Ill., plant of the Reynolds Metals Co.

architect—Vern E. Alden Co., Chicago, Ill.

general contractor—Engineering Construction Corp., Chicago, Ill.

KREOLITE Kountersunk lug type



application

section "A"

Kreolite Kountersunk lug wood blocks laid in the floor before filler is applied. The blocks may be driven up tightly together, as the lugs will provide a space for the thorough penetration of the essential bituminous binder and filler.

section "B"

Kreolite Kountersunk lug wood blocks after one application of hot Kreolite Pitch filler. For utmost efficiency, the bituminous filler should penetrate all around the sides and ends of each individual block. Because the blocks are laid directly upon a coating of bitumen, all sides of each block are sealed, imparting to the individual blocks greater resistance to moisture changes.

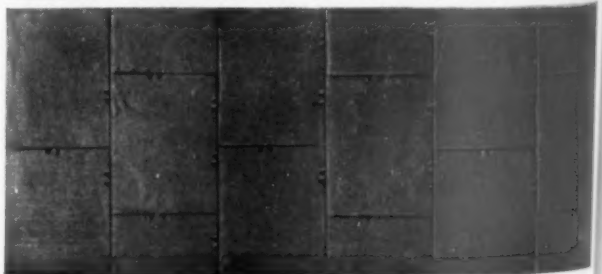
section "C"

Kreolite Kountersunk lug wood blocks, after one application of hot pitch filler, with a second application of Kreolite Jennite filler flushed over the surface, without heating, with the surplus removed with a rubber edged hand squeegee. At completion, joints should be filled uniformly to within approximately $\frac{1}{4}$ inch of surface.

Kreolite Kountersunk lug type wood blocks are designed for all general industrial conditions: light or heavy; wet, damp or dry; interior or exterior service.

Kreolite Kountersunk lug type wood blocks are manufactured in depths of $1\frac{1}{2}$, 2, $2\frac{1}{2}$ and 3 inches of Yellow Pine and Upland Oak. For ordinary machine shop or light traffic operations, a 2-inch depth is satisfactory. A $2\frac{1}{2}$ -inch depth block is generally used where traffic is particularly heavy or where heavy weights or castings are dropped on the floor. Blocks 3 inches in depth and over are recommended for loading platforms and uncovered areas.

Kreolite Kountersunk lug type block has open joints to permit free penetration of the filler and binder around all four sides of each block. The block is impregnated with Kreolite creosote oil for protection against decay, moisture, vermin and termites.



KREOLITE wood block floors

KREOLITE grooved type

B—1/Je



Recommended for general industrial service, either heavy or light, the Kreolite grooved type wood block is suitable for use under dry interior conditions.

Kreolite Grooved type blocks are manufactured from air seasoned 3 x 6, 3 x 8, 4 x 6 or 4 x 8 end grain lumber, of Yellow Pine and Upland Oak. They are available in depths of 1 1/2, 2, 2 1/2, and 3 inches, depth varying with the intensity of traffic.

Kreolite Grooved type blocks are impregnated under pressure with Kreolite creosote oil for protection against decay, moisture, vermin and termites.

KREOLITE flexible strip type

natural color—end grain



Designed to meet the demand for a light, natural color end grain wood block floor for industrial service, printing plants, drill halls, gymnasias, etc., Kreolite flexible strip end grain wood block floor is a continuous strip type flooring.

Kreolite flexible strip blocks are held together by a galvanized steel wire truss embedded in the side surfaces of the strip. This prevents blocks from loosening, eliminates cupping, and provides a smooth nailless surface.

Kreolite strip block flooring is manufactured in depths of 1 1/2, 2, 2 1/2 and 3 inches; most commonly used in the 2-inch depth. The blocks are impregnated with a water-repellent preservative containing sufficient phenol solutions to act as a termite repellent and toxic against fungus attacks.

specifications

KREOLITE Kountersunk lug block

KREOLITE Bevelug block

KREOLITE grooved block

note: These specifications have been prepared so as to provide the architect with an option to select any of the above three block types.

manufacture

architect: indicate choice of items 1, 2 or 3)

1. Kreolite Bevelug Blocks shall have beveled corners combined with lugs projecting approximately $\frac{1}{8}$ " from the face of all sides. These lugs shall be an integral part of the block and shall act as spacers.

2. Kreolite Kountersunk Lug Blocks shall have two or three lugs on one side and one lug on one end of each block. The lugs shall protrude approximately $\frac{1}{8}$ " from one side and $\frac{1}{32}$ " from one end of each block. The lugs shall be an integral part of the wood, extending in the direction of the grain. For wet conditions the lugs shall protrude approximately $\frac{1}{8}$ " from both the side and the end.

3. Kreolite Grooved Blocks shall have two or three grooves in one side of each block and one groove in one end.

All blocks shall be $1\frac{1}{2}$ ", 2", $2\frac{1}{2}$ " or 3" in depth, approximately $2\frac{3}{4}$ to 4 inches in width, and may vary from $3\frac{1}{2}$ to $8\frac{1}{2}$ inches in length. A variation of $\frac{1}{8}$ " shall be allowable in depth and $\frac{1}{8}$ " in width of blocks furnished. Season checks shall not be considered defects.

The wood blocks shall be manufactured from sound Southern yellow pine lumber meeting standard grading rules of the Southern Pine Assn. specifications of 1948, Pgh. 248, for medium grain lumber, so that the blocks thus provided and laid on the floor shall average not less than four rings per inch when measured over the third, fourth and fifth inch from the center of the pith, it being understood that the average thus determined shall be the average of the aggregate of all blocks thus provided and laid. Wood blocks with two annular rings per inch and less when measured over the third, fourth and fifth inches from the center of the pith shall not be acceptable.

installation

The blocks shall be installed on a thoroughly seasoned concrete base, which has been finished smooth and level (a smooth wood float finish will be satisfactory exactly the depth below the finished floor level corresponding with the depth of the block used. Care must be taken to see that there are no projections, ridges or waves in the concrete that will form an uneven bearing for the blocks.

The concrete base shall be thoroughly cleaned of dust and dirt and given a prime coat of Kreolite Priming Oil. After the Priming Oil has dried, it shall be given a thin, even coating of hot Kreolite Pitch, not exceeding $\frac{1}{8}$ " in thickness. This coating shall be allowed to harden before laying the blocks.

Upon the base, as above prepared, the blocks shall be laid tightly together with the grain vertical. The courses of the blocks shall be kept straight and parallel and all joints shall be broken by a lap of at least one inch. The blocks shall be laid with their length at right angles with the line of traffic.

expansion joints

Against the walls on all sides of the floor, as well as around all columns and other obstructions, a Kreolite Bituminous Expansion Joint one inch in width shall be used.

filler

a. Kreolite Bevelug or Kountersunk lug type After the blocks have been laid in place and brought to a true and level surface, the surface shall be flushed over carefully with Kreolite Pitch Filler, applied just below the boiling point, with a carefully manipulated squeegee machine. Care must be taken to leave a clean surface.

After a period of at least two hours, to allow the Kreolite Pitch Filler to cool and settle, an application of filler, consisting of Kreolite Jennite, shall be flushed over the surface, without heating, and the surplus removed from the surface at time of application with a rubber edged hand squeegee. A period of at least eight hours shall be allowed for the Kreolite Jennite to dry, after which the floor is ready for use. At completion, joints shall be filled uniformly to within approximately $\frac{1}{4}$ " of surface.

b. Kreolite Grooved The sub floor shall be coated with a uniform coating of coal tar pitch having a melting point between 140°F and 155°F . Coal tar pitch shall be applied at the rate of approximately 6

lbs. per square yard and not to exceed $\frac{1}{8}$ " thickness. This coating shall harden before blocks are laid upon it. Kreolite Jennite finish is optional with this type block.

note We do not recommend transverse expansion joints in the concrete base. If such joints are used they must be left far enough below the surface of the concrete, so that when expansion of the concrete occurs, the expansion joint material will not be forced above the surface and raise the blocks above the finished floor level.

All bidders shall base their price on wood blocks, priming oil, bituminous cement, pitch filler and Kreolite Jennite Filler as manufactured by The Jennison-Wright Corporation, to be laid in accordance with the best practices as recommended by them. Should the contractor, after securing the contract, desire to substitute material of another manufacture, he shall first submit samples, secure permission in writing for such substitution from the engineer, and shall state the amount to be deducted from or added to his contract price for such substitution.



Over 290,000 sq ft of Kreolite Kountersunk lug block flooring in this Curtis Publishing Co. plant at Sharon Hill, Pa. Over $\frac{1}{2}$ million sq ft of Kreolite wood blocks in Curtis Publishing plants throughout the country.

engineer and contractor—Stone & Webster Engineering Corp., Boston, Mass.



Deadly Patton-48 medium tanks come off the assembly line at Ford Motor Co.'s Tank Division, Livonia, Mich., where over 1,128,000 sq ft of Kreolite Kountersunk lug blocks have been laid.

KREOLITE wood block floors

KREOLITE natural color Flexible Strip End Grain Wood Block Flooring

B-1/Je

manufacture

Kreolite Flexible Strip End Grain Wood Block Flooring shall be kiln dried Southern Yellow Pine, not 2" x 4" in cross section, and assembled in flexible strips two feet to eight feet in length, 1½, 2 or 2½ inches in depth parallel to the grain of the wood and approximately 3½ inches in width. The strips shall show end grain only, on both the top and bottom surfaces.

Individual blocks shall be bonded into strips by galvanized steel wire trusses tightly embedded within their side surfaces at right angle to the grain, and milled for tight fitting galvanized crimped steel wire splines. Assembled strips shall be dressed square and true, to accurate, uniform dimensions on the wearing surface and two sides and shall be impregnated at the plant with Kreolite moisture repellent Transparent Preservative to protect the material against rapid absorption of moisture and wood destroying organisms, such as termites and fungi.

concrete subfloors

The concrete subfloor for the 1½" depth Strip Block floors shall be finished with a rotary steel troweling machine and those areas inaccessible to the machine shall be steel-troweled by hand to produce a hard, smooth and uniformly level surface, exactly 1½ inches below the finished floor level.

The concrete subfloor for 2" and 2½" depth Strip Block floors shall be finished smooth and true level with a wood or mechanical float (without depressions, waves, ridges or exposed coarse aggregate) exactly the depth below the finished floor level corresponding with the depth of the block used.

When the slab is set, a straight edge shall be used to check the levelness of the slab, which shall not vary by more than ¼" from a 10 foot straight edge. The architect shall designate the number of locations to be checked which shall be sufficient to determine whether the floor is uniformly level. If the slab is found to have variations in excess of the specified tolerance, these variations shall be corrected by machine grinding or other approved methods. Any work required to put the concrete subfloor in condition shall be the responsibility of the masonry contractor.

waterproofing (to be included in masonry specifications)

When the strip flooring is to be installed on the ground floor or in basement, where water or moisture may seep through the concrete floor slabs, an approved waterproofing vapor-seal membrane shall be provided either under or within the concrete slab by the mason contractor. The walls extending below the ground shall also be properly waterproofed at time of construction by the mason contractor.

installation

Interiors of the buildings shall be dry, ventilated, and, if the weather is cold, shall be heated to a temperature of not less than 65° F. or more than 80° F. before the flooring is installed. The flooring shall be stored for no less than ten days in well ventilated piles in the building under actual conditions of heat and humidity prior to installing.

The thoroughly seasoned concrete base shall be completely cleaned of dust and dirt and primed with a special Kreolite Priming Solution. After the Priming Solution has dried, it shall be given a thin even coating of Kreolite Cement or Adhesive. Upon the base as above prepared, the Kreolite Flexible Strip End Grain Wood Block Flooring shall be laid with each strip interlocked to the adjoining strip by tight fitting galvanized, crimped steel wire splines.

As each strip is laid, it shall be tapped snug with rubber mallets. Care must be taken to maintain straight lines in the floor, and the strips shall again be driven up tight with a driving log every four to six rows. Expansion voids two or three inches in width shall be formed around all columns and against all walls, as conditions indicate. These spaces shall be filled with premoulded Kreolite Cork and Fiberglass Expansion Joints or steel springs.

The instructions of the manufacturer shall be followed when installing Kreolite Strip Block Flooring.

sanding

The surface of the floor, after installing, shall be sanded to a smooth and even surface with an electric sanding machine, in accordance with manufacturer's recommendations.

finish

Finish for Schools, Auditoriums, Gymnasiums, etc. A seal coat of an approved sealer shall be applied and upon drying a filler shall then be carefully applied, rubbed in and machine buffed, leaving a clean surface. If conditions do not indicate the need for filling, and additional coat of an approved sealer shall be substituted in place of the filler and upon drying shall be machine buffed. After the filler or sealer has dried and has been machine buffed, the playing lines shall then be laid out, masked in and enameled, as indicated by the drawings. After at least 12 hours there shall be applied one coat of an approved gym finish, which shall be allowed to thoroughly dry before the floor is put in service.

Conditions of temperature and humidity in the room must be proper for the application of the finish. The finish shall not be applied until all other subcontractors have left the room, and in no case under adverse weather conditions. Additional coats of Gym finish may be applied, at additional cost.

Industrial finish. For industrial installations two coats of Kreolite Penetrating Seal shall be applied 24 hours apart.

protection

The General Contractor shall protect the finished floor from damage until the building is ready for occupancy by covering the floor with clean tarpaulins, or building paper.

maintenance

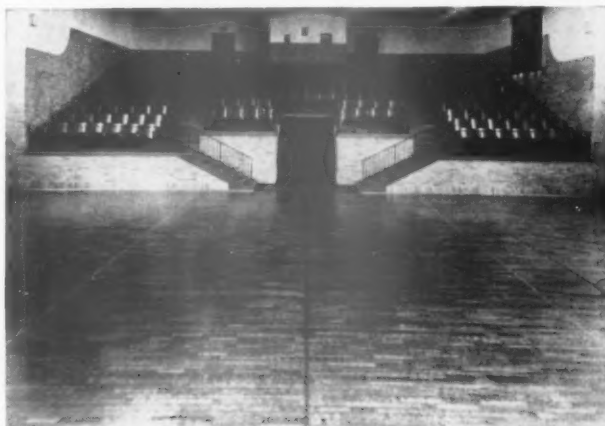
Kreolite Flexible Strip End Grain Wood Block Floors should be cleaned and polished periodically, at least once every thirty days, with Kreolite Strip Wood Block Floor Cleaner, applied with a spray or a lamb's wool applicator and polished with an electric polishing machine.

alternate no. 1

A membrane consisting of ⅛ inch thick or greater flexible untreated cork-board or Celotex underlayment, may be specified if desired.

Note—Manufacturer reserves the right to change specifications without notice.

Note—For areas under 1800 square feet, consult manufacturer for recommended installation procedure and materials.



Olney School, Wood County, Ohio, has Kreolite flexible strip block floors laid in the auditorium, stage, lecture and demonstration rooms, laboratories and carpenter shops. architect—Howard Manor, Grand Rapids, Ohio. contractor—James I. Barnes Construction Co., Springfield, Ohio.

the JENNISON-WRIGHT CORPORATION

KREOLITE services

chemical division

For laboratory determination, and development of improvements in timber treatment, treating processes and Kreolite products.

engineering division

For consultation, and design of materials using products made or supplied by the Jennison-Wright Corporation.

service division

For installation of Kreolite Wood Block Floors on contract basis, or supervision of installation.

research division

For periodical inspection of installations of Kreolite Wood Block Floors and other Kreolite products.

other KREOLITE products

pitch

Binder for Kreolite creosoted and flexible strip wood block floors as well as a filler for creosoted wood blocks.

road tar

For sale primarily to state and county highway commissions in Ohio, Indiana and Michigan.

creosoted lumber and piling

For bridges, docks, framing, construction. Furnished either rough or sized.

cross and switch ties

For railroads and industries throughout the U.S.

branch offices

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Ora Dresser
P.O. Box 5052
Roessleville Branch
Phone—Albany 2-3359

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Morris Black & Sons
3rd and Union Streets
Phone—Hemlock 7201

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Talbot & Degele, Inc.
328 E. 25th Street
Phone—Hopkins 7-5407

BETHLEHEM, PA.

Morris Black & Sons
902-26 14th Ave.
Phone—University 7-4631

BIRMINGHAM 9, ALA.

J. Earl Glenn
1507, Manhattan St.
Homewood Station
Phone—Tremont 1-5478

BOSTON 10, MASS.

H. J. Kaswell
Hingham Industrial Center
Lincoln Street
Hingham, Mass.
Phone—Hingham 6-3236

BUFFALO 2, N. Y.

A. H. Weaver Lumber Co.
17 Court Street
Phone—Cleveland 1031

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P.O. Box 10582
216 E. Morehead St.
Phone—Franklin 6-2454-5-6

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Sidney S. Clark
Lou Adams
64 West Randolph St.
Phone—State 2-1216

CINCINNATI 26, OHIO

Cincinnati Floor Co.
Eastern & Linwood Aves.
Phone—East 1-1837

CLEVELAND 15, OHIO

Arthur D. Andrews
R. H. Strauss
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Phone—MAin 1-4000

DAYTON, OHIO

M. F. Hoagland
909 Sunnyview Avenue
Phone—Taylor 3043

DENVER, COLORADO

Building & Maintenance Co.
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Phone—Keystone 4-2371

DETROIT 26, MICHIGAN

Bert Jones Jack Martin
823 Penobscot Bldg.
Phone—Woodward 1-2451

FORT WORTH 4, TEXAS

Chas F. Williams Co., Inc.
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Phone 2-6363

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E. J. Littleton, Stanley Bell
St. Louis Exchange
Phone—Glenview 2-3114, 2-3115

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Floors, Inc.
7929 Wornall Rd.
Phone—Jackson 5390

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John W. Ladd, Charles H.
Anderson, Floors, Inc.
5940 S. Nicollet Ave.
Phone—Re. 8228

NEW YORK 17, N. Y.

Daniel W. Thomson
Edward P. Henken
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Phone—Murray Hill 8-3345

NORTH HAVEN, CONN.

R. E. Copeland
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Phone—New Haven, Chestnut
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Fred Klippel
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L. T. Ericson, Jr.
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Phone—2-6507

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Hutchison-Rathbun, Inc.
95 Augusta Street
Phone—Hamilton 2820

SCRANTON, PA.

Fred R. Evans
314 Madison Avenue
Phone—Diamond 7-9691

ST. LOUIS, MISSOURI

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Printed in U.S.A.

2463 Broadway - Toledo 9, Ohio

CONGOLEUM-NAIRN INC.

Kearny, N. J.

For years' more service...

SPECIFY Gold Seal® FLOORS!

EXAMPLE: *This Gold Seal Linoleum Installation Is 55 Years Old!*



Father Sullivan, Director of Purchases, College of The Holy Cross, Worcester, Mass. reports: "Gold Seal Battleship Linoleum was installed in O'Kane Hall in 1903. In 1938 it was taken up and re-installed with black borders on the treads of the main staircase. It's still there—and in good condition!"

Now for heavy duty floors, Gold Seal offers exclusive, new 1/8" Sequin® Inlaid Linoleum—a spirited design of bright, decorator colors. Rugged abrasive-wheel tests prove "Sequin" will look like new through years of wear. Easy-to-clean, satin-smooth surface resists dirt, grease, stains, indentation.

For Every Commercial, Institutional, Residential Budget—A Complete Line of Plastics, Tile, Bulletin Board Cork

Gold Seal Nairon® Plastics—Complete line includes Gold Seal "Nairon Custom"—the ultimate in 1/8" and .080" homogeneous plastic tile. Choice of three designs: "Sequin," "Marble" or magnificent new "Venetian." Outstanding resistance to acids, dirt, stains. 49 bright, clear colors. Also, "Nairon Standard" quality plastic for floors, walls and countertops. In yard goods, split widths and tile with saturated felt back.

Gold Seal 1/8" Vinylbest® Tile—Install this vinyl-asbestos tile anywhere—from basement to top floor! "Vinylbest" is tough, flexible, long wearing... has excellent resistance to moisture, grease, alkalies and cleaning solvents. Rich design, 15 colors.

Gold Seal Rubber Tile—Luxurious looking, exceptional resiliency... quiet and comfortable underfoot. Available in 9" x 9" tiles, 1/8" and standard gauge... 22 colors.

Gold Seal Cork Tile—A natural insulator especially suited for libraries, study rooms. Outstanding quiet and comfort underfoot. Unsurpassed for soil resistance in the cork tile field. Light, medium, dark shades... 1/8" and 3/16" gauge, 9" x 9", 6" x 12", 12" x 12" tiles.

Gold Seal Asphalt Tile—Cuts initial costs. Unusual resistance to moisture and alkalies. 9" x 9" tiles. 1/8" and 3/16" gauge. 31 patterns.

Gold Seal Bulletin Board Cork—Linseed oil-binder results in a firm locking-in of cork and pigments... avoiding pick-out... withstands thumb-tack perforations. Colors go clear through for years of wear. Designed for good light reflectance to promote restful vision. Easy to clean. In rolls 73" or 49" wide... 1/4" and 1/8" gauge... up to 90 lineal feet per roll... 8 colors.



FOR HOME... BUSINESS... INSTITUTIONS:

BY THE YARD AND TILES—Inlaid Linoleum • Nairon® Plastics • Vinylbest® Tile
Cork Tile • Rubber Tile • Asphalt Tile
PRINTED FLOOR AND WALL COVERINGS—Forecast® Vinyl • Congoleum® and
Congowall® • *Trademark

SATISFACTION GUARANTEED OR YOUR MONEY BACK

CONGOLEUM-NAIRN INC., KEARNY, N. J.



FOR THE LOOK THAT'S YEARS AHEAD

Gold Seal®
FLOORS AND WALLS

AMERICAN SCHOOL AND UNIVERSITY—1958-59

AMERICAN ABRASIVE METALS CO.

Irvington 11, N. J.

Offices in Principal Cities

MAINTENANCE FREE NON SLIP PRODUCTS FOR STAIRWAYS AND FLOORS

MAINTENANCE FREE ALUMALUN® Safety Stair Treads

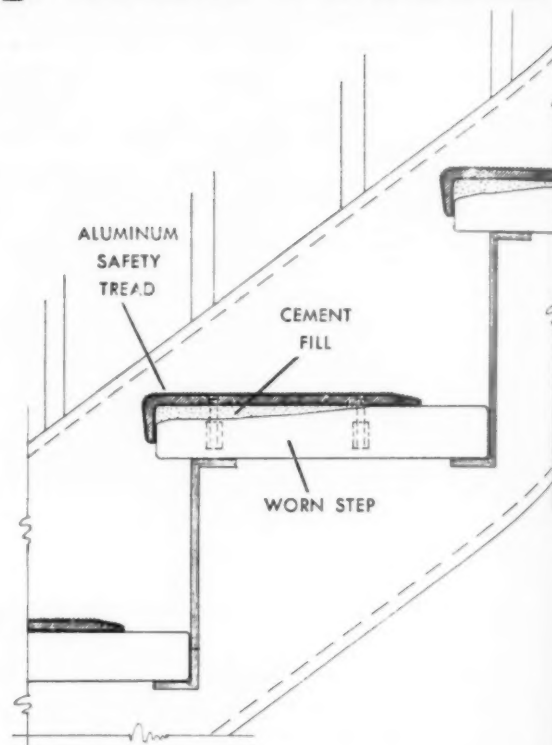
BY AMERICAN ABRASIVE
METALS COMPANY

The drawing illustrates the method by which the cities of Philadelphia, Pa. and Savannah, Ga. solved their worn stair problems by the application of Alunalun Safety Stair Treads in 36 different schools during the years of 1955-56.

ALUMALUN Safety Stair Treads

*were selected
for the
following reasons:*

- Maintenance free
- Positive safety against slipping
- Lifetime installation
- Light in weight
- Bright color
- Best safety tread available for installation on worn slate, wood, concrete or terrazzo steps

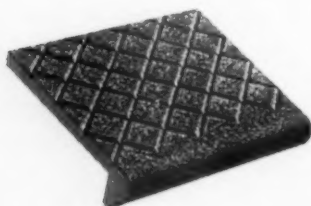


The American Abrasive Metals Co. is the pioneer in the abrasive safety tread field. Its products are well known throughout the entire building and construction industry for their lasting qualities.

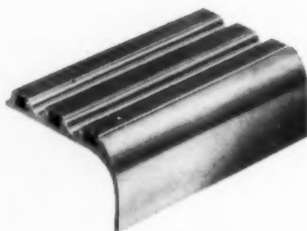
If your problem is determining what type of safety stair tread to use, whether for new construction or repair work, write or call the American Abrasive Metals Co. for full information and technical assistance.

In addition to Alunalun, the American Abrasive Metals Co. also manufactures safety stair treads in other metals (both cast and extruded).

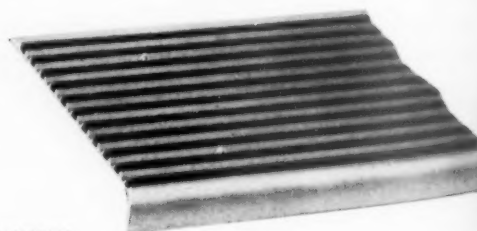
Feralun (cast iron with abrasive) • Bronzalun (bronze with abrasive) • Ribtread (extruded aluminum or brass with abrasive filled channels) • Stairking (aluminum base, abrasive filled channels)



FERALUN



RIPTREAD



STAIRKING

EVERY TYPE OF METAL SAFETY STAIR TREAD IS AVAILABLE FROM
AMERICAN ABRASIVE FOR NEW CONSTRUCTION OR REPAIR INSTALLATIONS

AMERICAN SCHOOL AND UNIVERSITY—1958-59

AMERICAN ABRASIVE METALS CO.

Trowel On **FERROX**[®] for Safety

**NON SLIP • LOW COST • LONG LASTING
EXCELLENT FOR DANGER AREAS**

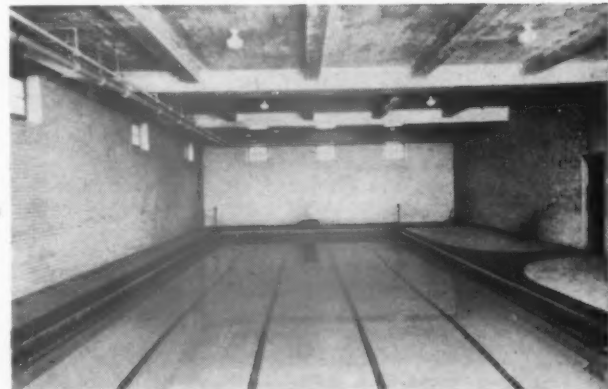
Ferrox is a plastic, non-slip compound that makes indoor or outdoor walkways safe regardless of whether they're slippery, wet, or oily. It's easy to apply, goes on with a trowel, dries in 6 to 8 hours. One gallon of Ferrox covers approximately 35 sq. ft., thickness about 3/32". It comes in red, gray, black and green.

Ferrox has given years of service in hundreds of schools. It may be applied over concrete, wood, stone, metal or practically any other surface. A few of the many school applications are pictured here. Others include building entrance ways, dressing areas, and auditorium aisles.

Ferrox eliminates cumbersome mats. Being only 3/32" high, there is no trip hazard in approaching the apron. We welcome inquiries on your slip and fall problems.



Ferrox on steep ramp



Just one of many Ferrox applications around a pool



Typical Ferrox application in a shower area



Ferrox for safe footing near machines



Ferrox over entire floor of industrial arts shop

AB138

AMERICAN SCHOOL AND UNIVERSITY—1958-59

INTERNATIONAL PAPER COMPANY

LONG-BELL DIVISION

Factory Sales . . . Longview, Washington

* WORTHWOOD END GRAIN FLOORING

RECOMMENDED FOR VOCATIONAL SHOPS AND SCHOOL GYMNASIUMS. WIDELY USED SINCE 1932 IN ARMORIES, POST OFFICES, FACTORIES, PRINTING PLANTS, ARMY AND NAVY SHOPS IN THE UNITED STATES AND FOREIGN COUNTRIES



Advantages

End grain Douglas Fir, wear resistant, long lived, and with ease of maintenance are properties of Long-Bell Worthwood End Grain Flooring. Only slow growth Douglas Fir, with even, hard grained annual rings, excels in end grain flooring which will not splinter under the most severe use. Fabricated into tongue and grooved strips for firmness and smoothness, Long-Bell Worthwood End Grain Flooring is clean, quiet, warm, resilient, non-slip, and bright in color. Superior for vocational and industrial shops.

Long-Bell Worthwood End Grain Flooring, serviceable and attractive, is recommended as a most satisfactory heavy duty floor for dry interior rooms.

TYPICAL
ATHLETIC
FLOOR
OF
LONG-BELL
WORTHWOOD

ASK FOR
CATALOG
AND
SAMPLES

*REGISTERED TRADEMARK

AMERICAN SCHOOL AND UNIVERSITY—1958-59

Specifications

100% End Grain face.

End Grain Blocks full depth of flooring.

Kiln dried Douglas Fir.

Clear face, sound, serviceable wood containing no defects that will lower its efficiency.

Blocks minimum $1\frac{3}{4}$ " x $3\frac{1}{2}$ ", maximum $1\frac{7}{8}$ " x $4\frac{1}{2}$ " face.

Securely assembled by continuous solid wood splines to form heavy tongue and grooved flooring strips of uniform width.

Thickness—2 or $2\frac{1}{2}$ inch.

Width— $3\frac{1}{2}$ or $4\frac{1}{2}$ inch.

Length—2 to 8 feet, average 6 feet or longer.

Base grooved for surplus mastic.

Edges machined uniformly for accurate matching.

Face sanded to uniform thickness (optional).

Treatment at Factory (optional). Water Repellent Treatment, open tank process. Deeply penetrating, clear, practically colorless, gives maximum moisture resistance.

Standard Installation

The end grain strips shall be laid in asphaltic mastic on concrete subfloor, with end joints staggered and with 1 to 2 in. expansion strips around all walls and columns. Concrete slab must be smooth, dry and clean. Subfloors directly on the ground or below level must be adequately waterproofed. A good quality asphaltic primer and mastic shall be applied in accordance with manufacturer's instructions. Mastic must not contain water when flooring is laid. The floor, after installation, shall be sanded, if necessary, to make a smooth surface and shall be treated with a penetrating filler and seal of maximum waterproofing character.

Athletic Floors

For increased uniform resilience, lay flooring in mastic over mat of cork or insulation board. For spanning open spaces between joists, lay floor on Fir plywood subfloor.



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KANSAS CITY, MO.

LONGVIEW, WASH.

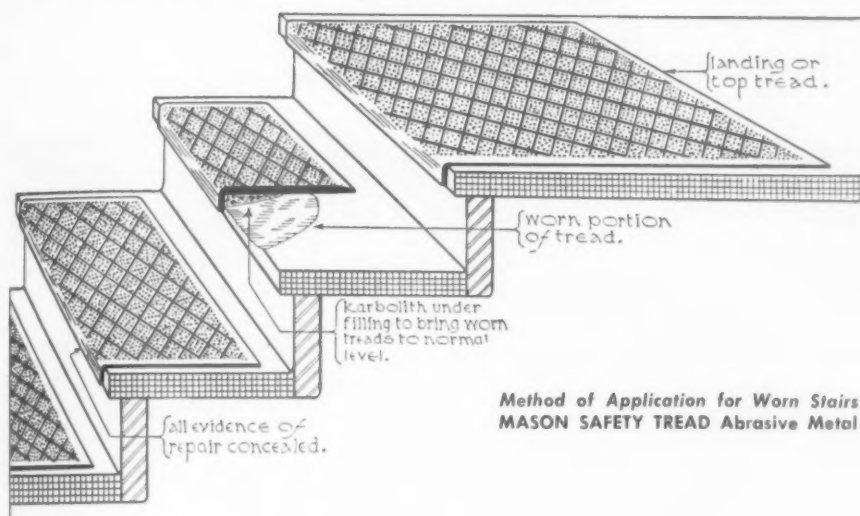
AMERICAN MASON SAFETY TREAD CO.

Lowell, Mass.

REPRESENTATIVES IN PRINCIPAL CITIES OF THE UNITED STATES AND CANADA

MASON SAFETY TREADS

- **Abrasive Metal**
Iron, Aluminum or Bronze
 - **Ribbed Type**
Aluminum or Arch, Bronze
Abrasive or Lead Filling
 - **Universal**
Steel with Lead Inserts
Also Anti-Slip-Abrasive Lead
- for Stairways
Stair Landings
Ramps
Also Thresholds**



Method of Application for Worn Stairs
MASON SAFETY TREAD Abrasive Metal

For years **Mason Safety Treads** have filled a very definite need in preventing accidents on stairways, entrances and other heavy-traffic walkway surfaces. With Mason Treads, whether you install the Abrasive Metal, the Ribbed Type in brass or aluminum, or the Universal Type, your SAFETY problem will be satisfactorily solved. All types can be quickly and economically installed by your own workmen.

SPECIFICATIONS—SAFETY TREADS

New Steel Construction—All stair treads and platforms as shown on plans shall be Mason Abrasive Iron Style VR (or other style as selected) with cross-hatched (plain or fluted if preferred) surface as manufactured by the American Mason Safety Tread Company, Lowell, Mass. Suitable steel supports and stringers with carrier angles shall be provided for securely bolting treads and platforms in place. Sheet steel riser plates (state gauge) shall be bolted to nosings and riser lips of the Safety Tread. Thickness of treads and platforms shall conform to the manufacturer's established standards.

New Concrete or Pan-Filled Construction—All stair treads including floor and landing-level steps shall be provided with Mason Abrasive Iron Safety Treads Style M (or H or G) cross-hatched surface as manufactured by the American Mason Safety Tread Company, Lowell, Mass. (Mason—Ribbed Type or Universal Type II, Style B Safety Tread steel with lead inserts, may be substituted.) Safety Treads shall be 3" wide (minimum) and extend from stringer to stringer (for reinforced concrete construction, safety treads may extend to within 3 inches of stringers). Standard concrete anchors, spaced according to manufacturer's recommended practice, shall be used to secure safety treads in place.

When you specify **Mason** products, you are assured of receiving **individualized attention** to your particular problem, **intelligent engineering service**, and a **quality product** at a **fair price**.

Write for copy of the **MASON** catalog—sent free on request to any school official or architect.



MELFLEX PRODUCTS COMPANY, INC.

410 South Broadway, Akron, Ohio

MANUFACTURERS OF SAFETY MOLDED RUBBER STAIR TREADS, MEL-ISLE FLOORING, RUBBER AND VINYL PLASTIC LINK MATS, ENTRANCE MATS, MATTING, ETC.

MELFLEX SAFETY Molded Rubber Step Treads—Black or Marbleized Colors . . .

Black—Heavy Duty Treads. Compounded of special "frictioned" rubber for long, low-cost service and maximum slip-resistance, wet or dry . . .

Treads are $\frac{1}{4}$ " thick, molded of "frictioned" rubber to fit over approach edge of step. Built especially for hard, constant, scuffing wear and to assure maximum slip-resistance and noise reduction . . . They can be applied to steps outdoors or indoors on any type of base construction—wood, metal, concrete, terrazzo, tile—without the need of special holding strips. Treads are easily cemented to base with MELASTIC Water-Proof Bonding agent for permanent, trouble-free service. Grid pattern surface acts to drain moist soil and water from tread to provide a SAFE stepping surface wet or dry. They never become slippery or hazardous.

We supply these treads trimmed to fit your step specifications in either curved nose or square nose type. Maximum size in one molded tread—20 inches deep x 72 inches tread width.



Approved by
Underwriters'
Lab., Inc.
S.A. No. 833

Marbleized Colored Treads

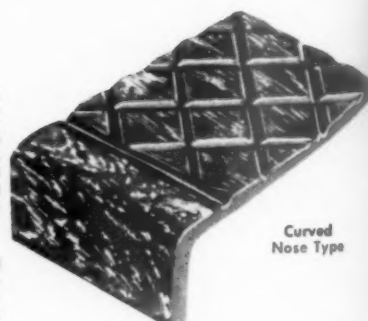
Treads are $\frac{3}{16}$ " thick in marbleized colored patterns that run through to the underside of tread . . . Colors available are: Green with white marbleizing, blue with white marbleizing, brown with tan marbleizing, terra-cotta with white marbleizing, gray with black and white marbleizing and black with white marbleizing. Treads have same tread design as the Heavy Duty Black and can be supplied trimmed to fit your step specifications up to 20" deep x 62" wide.



MEL-ISLE Heavy Duty Ribbed Runner . . .

An exceptionally durable runner material for halls, corridors, locker rooms, ramps . . . Black "frictioned" rubber compound, highly slip-proof, ruggedly resistant to hard, scuffing wear. Supplied trimmed to fit your specifications or in rolls up to 40" wide x 25 yards long. $\frac{3}{8}$ " thick. Marbleized colored Mel-Isle, $\frac{3}{16}$ " thick to match marbleized molded treads for step-wells, landings, or floor covering can be supplied in any size up to 36" width x 25 yards long.

MEL-FLOOR, smooth-surfaced, plain or marbleized colors in $\frac{1}{8}$ " and $\frac{3}{16}$ " thickness for step risers or area coverings can be supplied to your specifications from maximum stock widths of 36" x 25 yards long.



Curved
Nose Type

LINK MATS—Custom-Made for any Size or Shaped Area—Links of "Frictioned" Rubber, Colored Rubber or Vinyl Plastic . . .

Links $\frac{1}{2}$ " thick are woven on special rust-resisting steel wire. Mats may be made to conform to any area requirements . . . Black Rubber, "Frictioned" Rubber, Colored Rubber and Vinyl Plastic links are used for making these mats to meet varying requirements—for entrances, lobbies, safety mats about machines, cushion mats for kitchens, or serving aisles, all or grease-resistant mats . . . Complete information will be furnished on all types of mats through our catalog. Write for it.

THE R. C. MUSSON RUBBER CO.

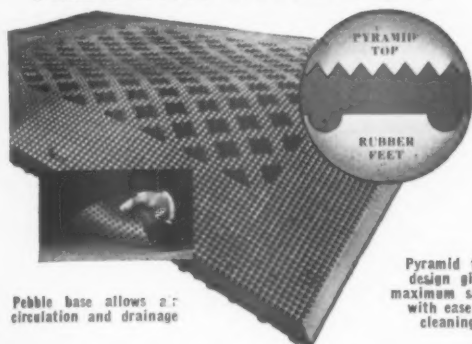
16 S. College St. • Akron 8, Ohio

MUSSON SAFETY DESIGN RUBBER MATS AND TREADS

NEW SAFETY DESIGNS FOR HAZARDOUS AREAS—WITH BEAUTY AND ECONOMY

Musson products are backed by 35 years' experience in rubber. Safety is built into all Musson mats and treads by design and quality standards.

PERFORATED RUBBER MATS



Pebble base allows air circulation and drainage

Pyramid top design gives maximum safety with ease of cleaning.

Our business was built around these mats. Made of highest quality compounded rubber for long service.

DIMENSIONS: $\frac{3}{8}$ " and $\frac{1}{2}$ " thicknesses. Sizes up to 6'x16'6" in one piece. Stock widths—36", 48", 60", 72".

COLORS: Black, Brown, Red, Green, Gray.

Custom made to size and shape wanted. No letters or inlays. Corrugated Top, Flat Base perforated rubber mats also available, with or without inlays.

MOLDED RUBBER STAIR TREADS

No. 500



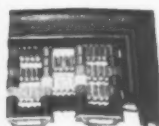
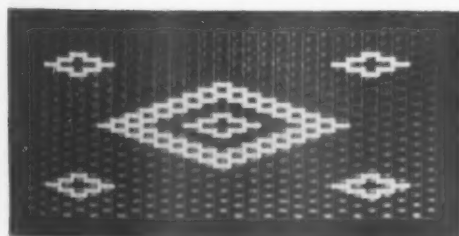
This is our Heavy Duty No. 500 Tread, designed for safety, beauty and durability under heavy traffic in public buildings. Curved or square nose. Heaviest gauge and weight molded tread available.

DIMENSIONS: Full $\frac{1}{4}$ " thick throughout with extra thickness on front edge. $12\frac{1}{2}$ " deep, with smooth rear border, in widths of 24", 30", 36", 42", 48", 54", 61", (72" in Square Nose Only.)

COLORS: Plain Black or marbled colors of Red, Green, Gray, Mahogany.

Matching Landing Tile and Smooth Risers available to go with all molded treads.

DURABLE RUBBER LINK MATS



Detail Section Rubber Links

Durable Rubber Link Mats, made for heavy traffic and adverse weather. Name or initials can be made by color arrangement of links. Multi-colored standard patterns available or can be made to your specified design. $\frac{1}{2}$ " thick, any size up to 8'x20' in one piece. Available with or without black bevelled nosing for surface use, or stub nosing for recess use.

COLORS: Brick Red, White, Black, Gray, Green, Blue, Salmon, Brown.

We also have Fabric Tire Link mats, $\frac{3}{8}$ " thick, custom made to size desired, or in 6 standard stock sizes.

NEW PERFECT FIT MOLDED RUBBER STAIR TREADS

No. 1000



Square or curved nose

This new horizontal bar pattern is a safety improvement and makes treads easy to clean. Desirable with modern architecture. Same high quality as No. 500 tread. Easily installed.

Full $\frac{3}{16}$ " thick throughout, with extra thickness at front edge. 12" deep, with $\frac{1}{8}$ " thick smooth rear borders. Widths of 24", 30", 36", 48", 60", 72".

COLORS: Plain Black or marbled colors or Red, Green, Gray, Mahogany.

Matching Landing Tile and Smooth Risers available to go with all molded treads.



WE ALSO SUPPLY SCHOOLS AND INSTITUTIONS WITH

LOBBY AND INSIDE ENTRANCE MATS, RUBBER RUNNER MATTING, DESK CHAIR MATS, SHOWER MATTING, GYM FLOOR RUNNERS, FATIGUE STANDING MATS.

Write for additional information

THE R. C. MUSSON RUBBER CO.

16 S. COLLEGE ST.

AKRON 8, OHIO

see our catalog in



or write for copy

AMERICAN SCHOOL AND UNIVERSITY—1958-59

WOOSTER PRODUCTS INC.

Spruce St., Wooster, Ohio

WORN DANGEROUS STAIRS Made New Again in One Day

*...Just this
easy with*

**'STAIRMASTER'
ALUMINUM ALLOY
SAFETY TREADS**

**BUILT TO OUTWEAR
CONCRETE — MARBLE — STONE**



America's No. 1 School Tread

Stairmaster treads are the standard safety tread for repairing stairs at many of the largest school systems and in hundreds of schools and colleges throughout the country.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

Stairmaster heavy duty aluminum safety treads are easily superimposed over worn, slippery stair treads—wear for years under heavy school traffic.

Detailed literature on the Stairmaster Tread and repairing stairs will be gladly sent immediately on request and without obligation.



If you are planning NEW Construction ask for Wooster's Architectural catalog of Safety Treads, Thresholds, and other Related Products.

Write —

WOOSTER PRODUCTS INC.

SCHOOL DEPT.

• SPRUCE ST.

• WOOSTER, OHIO



NATCO CORPORATION

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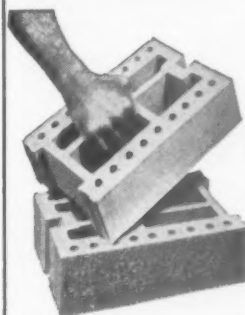
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Always look to NATCO

for the complete line
of structural products
for quality masonry
construction

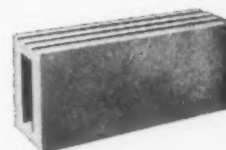


NATCO Uniwall Facing Tile

For single unit wall construction finished inside and out. Manufactured from hard burned, deaired fire clay to conform to all A. S. T. M. and Federal specification requirements for load-bearing and structural facing tile. Small number of shapes required for finished exterior walls and partitions offer sizable construction economies.

Tile Face Size $3\frac{1}{2}'' \times 11\frac{1}{4}''$ Buff Range Rugg-Tex Exterior Finish—Ceramic Glaze Interior Finish.

NATCO Ceramic Glaze Vitritile



Furnished in nominal 2'', 4'', 6'' and 8'' wall thicknesses in ceramic color, speckled and clear glaze finishes. Vitritile makes colorful, permanent interiors possible yet requires little maintenance. Complete shapes and fittings furnished for all construction requirements.

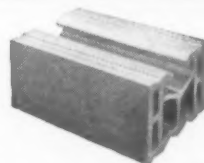
Furnished in 21 standard colors including the new speckled glaze finish. Nominal face sizes: "8W" Series 8'' x 16'', "6T" Series 5 $\frac{1}{2}''$ x 12'', "4D" Series 5 $\frac{1}{2}''$ x 8''. Write for shape catalogs.



NATCO Ceramic Glaze Velour Brick

Manufactured from highest quality fire clays, Natco Ceramic Glaze Velour Brick is perfect for the interiors and exteriors of modern buildings, homes and apartments.

It is furnished in nine attractive colors plus black and white and in standard brick sizes.



NATCO Dri-Speedwall Tile

Highly impervious to moisture—fire, termite and vermin-proof. Easily handled exterior units for complete load-bearing nominal 8'' wall construction or multiple unit walls of other thicknesses utilizing 2'', 4'' and 6'' stretchers and standard fittings.

Full stretcher units, nominal size—8'' x 5 $\frac{1}{2}''$ x 12''. Colors: Buff Unglazed, Manganese Spot, Salt Glaze and Red Textured.

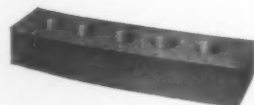
OTHER NATCO CLAY PRODUCTS

Speed-a-backer Tile	Patio Tile
Speedtile	Stairtread Tile
Bakup Tile	Natcoflor
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Unglazed Facing Tile	Clay Flue Lining
Ceramic Glaze Vitritile	Clay Drain Tile
"8W," "6T" & "4D" Series	Clay Sewer Pipe
Ceramic Glaze Vitribrik, "4S" Series	Wall Coping Tile
Tex Dri-Wall Tile	Clay Stove Liners
	Flashing Tile
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Write for General Catalogs S-58 and SB-58

NATCO Face Brick

Norman Roman SCR Standard



A complete line of facing brick, including ceramic glaze finishes, is manufactured by Natco, in distinctive red, buff and gray ranges. The nominal 12'' length of Norman, Roman and SCR bricks are preferred where strong horizontal lines are desired . . . larger sizes promote economies in labor during erection.

TABLE OF BRICK SIZES, INCHES

	Height	Depth	Length
Norman	$2\frac{1}{2}''$	$3\frac{1}{2}''$	$11\frac{1}{2}''^*$
	$2\frac{1}{4}''$	$3\frac{1}{2}''$	$11\frac{1}{4}''^\dagger$
SCR	$2\frac{1}{2}''$	$5\frac{1}{2}''$	$11\frac{1}{2}''^{**}$
Roman	$1\frac{1}{2}''$	$3\frac{1}{2}''$	$11\frac{1}{4}''^\dagger$
Standard	$2\frac{1}{4}''$	$3\frac{1}{4}''$	$8''^\ddagger$

*Red \dagger Buff and Gray
**Red and Buff

\ddagger Red, Buff and Gray

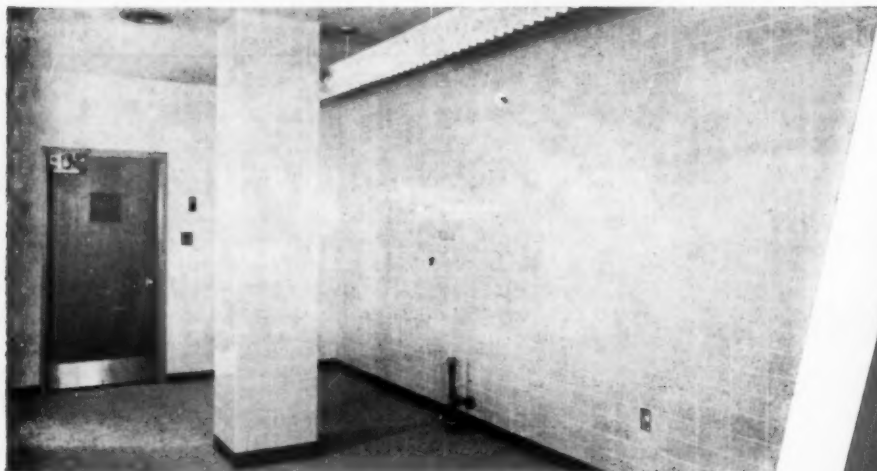
MONARCH TILE MANUFACTURING, INC.

San Angelo, Texas

Manufacturers of Ceramic Wall Tile—Warehouses and Showrooms in 12 Cities

NEW SCHOOL BUILDINGS DESERVE

Monarch **LONG** tile 8½" x 4¼" ceramic wall tile



Monarch Ceramic Wall Tile in the medical school of a large state university, completed in Spring, 1958.

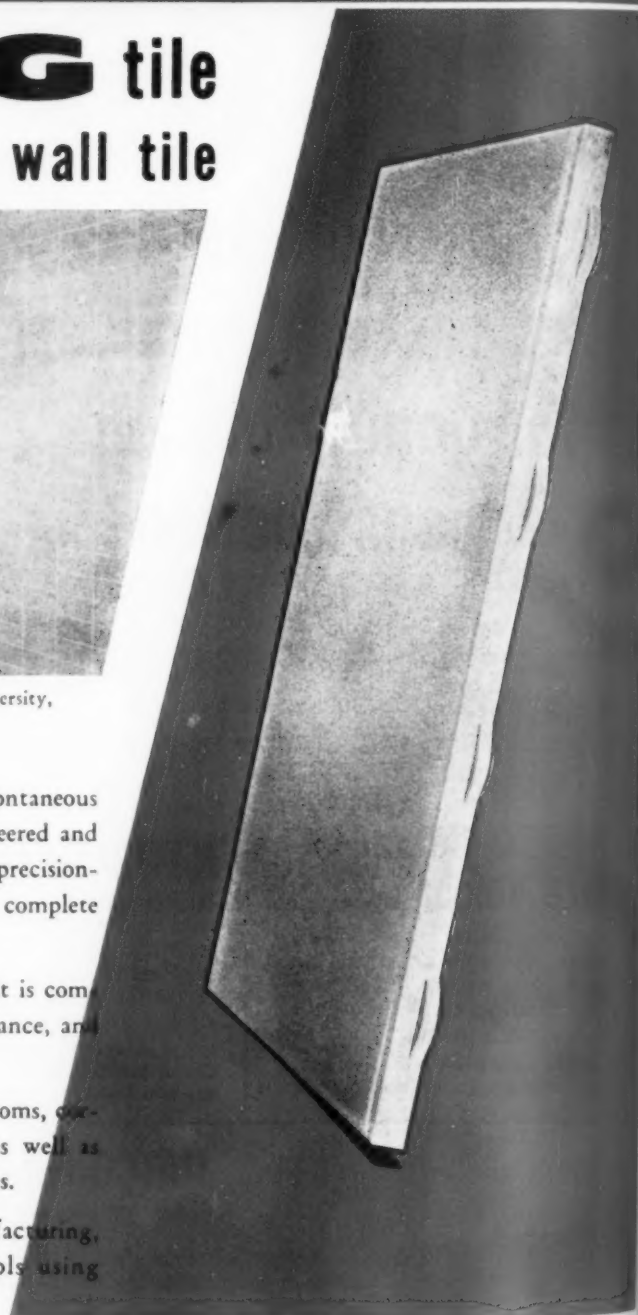
Architects and engineers throughout the country have been spontaneous in their acceptance and use of Monarch L-O-N-G Tile. Pioneered and developed by Monarch, this 8½" x 4¼" ceramic wall tile is precision-sized for speed, pre-spaced for accuracy, and is available in a complete range of *Colorblend* colors.

Monarch L-O-N-G Tile is ideal for school buildings because it is competitive in first cost, provides a substantial saving in maintenance, and offers an infinite variety of design possibilities.

Many new schools are using Monarch L-O-N-G Tile in classrooms, corridors, auditoriums, laboratories, workshops, dormitories — as well as in shower rooms, bathrooms, laboratories and cafeteria kitchens.

So that you may see for yourself, write Monarch Tile Manufacturing, Inc., Dept. AU58, San Angelo, Texas, for list of schools using Monarch L-O-N-G Tile.

AMERICAN SCHOOL AND UNIVERSITY—1958-59



AMERIC

MONARCH TILE MANUFACTURING, INC.

MONARCH CERAMIC WALL TILE COMBINES ECONOMY, COLORFUL BEAUTY AND FUNCTIONAL PERFECTION

Monarch CERAMIC WALL TILE



Monarch Ceramic Wall Tile in a recently finished elementary school, with a darker color in the classroom and a lighter color in the corridor.



Monarch Ceramic Wall Tile in a college constructed by a southern state, completed in 1917.

Competitive first cost . . . minimum maintenance . . . sanitary, fireproof surfaces . . . beauty of design . . . and the charm of permanent colors . . . these qualities make Monarch Ceramic Wall Tile the preferred choice of many architects and school administrators.

Over the Nation more and more public schools, private schools, colleges and universities are using this superior wall surface for long range economy. A few of the many include Denver University in Colorado; Junior High School in Waco, Texas; Northeast Louisiana State College in Monroe; and the University of Arizona in Tucson.

Facts about the multiple benefits of Monarch Ceramic Wall Tile are yours without obligation. Write Monarch Tile Manufacturing, Inc., Dept. AU58, San Angelo, Texas.

Monarch TILE MANUFACTURING, INC.



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a simple note will bring you, without cost or obligation, a copy of the Acousti-Celotex Sound Conditioning Survey Chart and the booklet "Sound Conditioning for Schools and Colleges." Address below.

THE CELOTEX CORPORATION, DEPT. V-58
120 S. LA SALLE ST., CHICAGO 3, ILL.

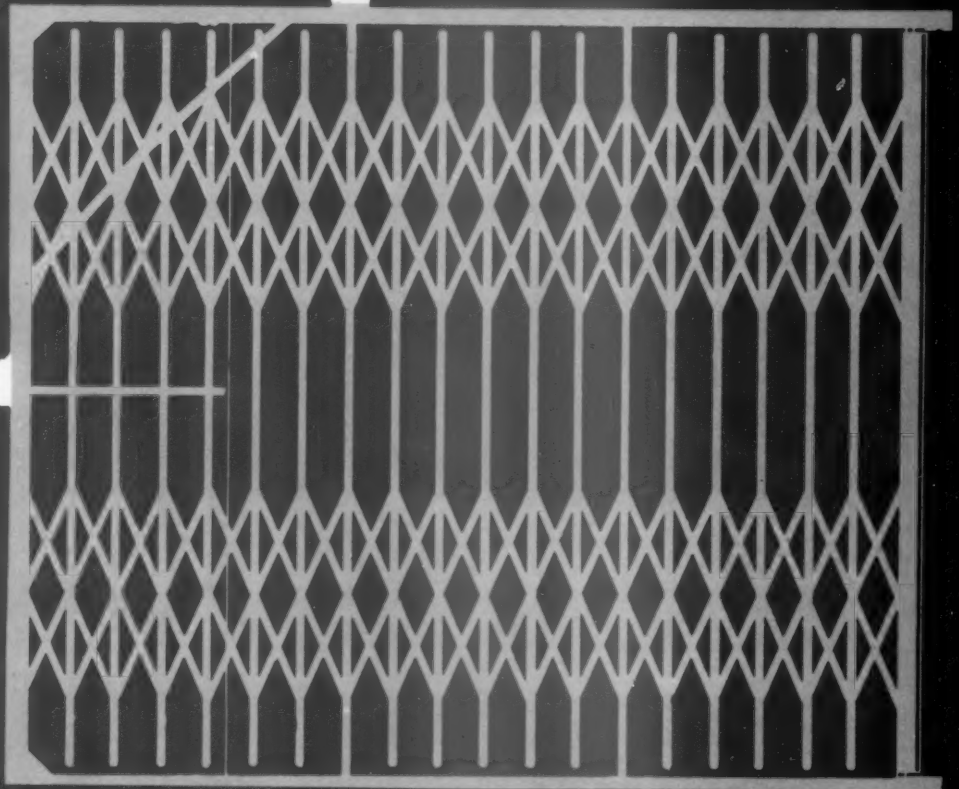


wire mesh partitions

collapsible gates

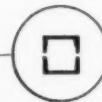
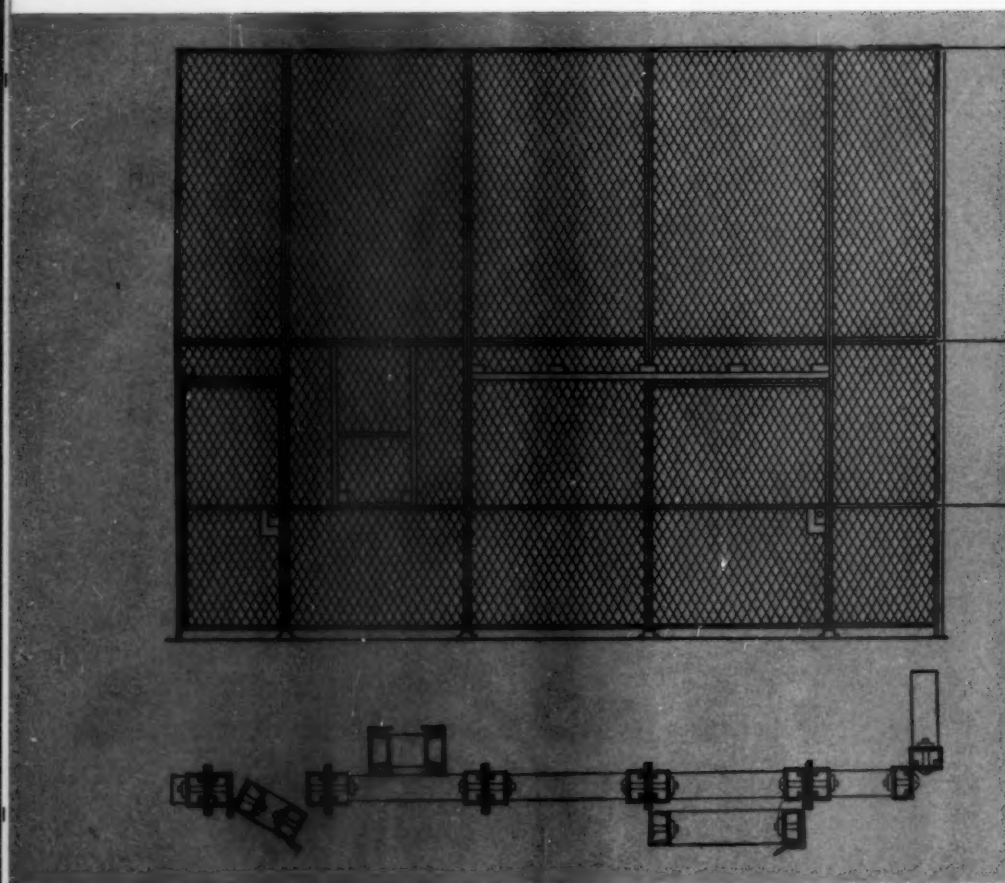
window guards

*extruded aluminum
corridor gates*



SUPERIOR WIRE & IRON PRODUCTS

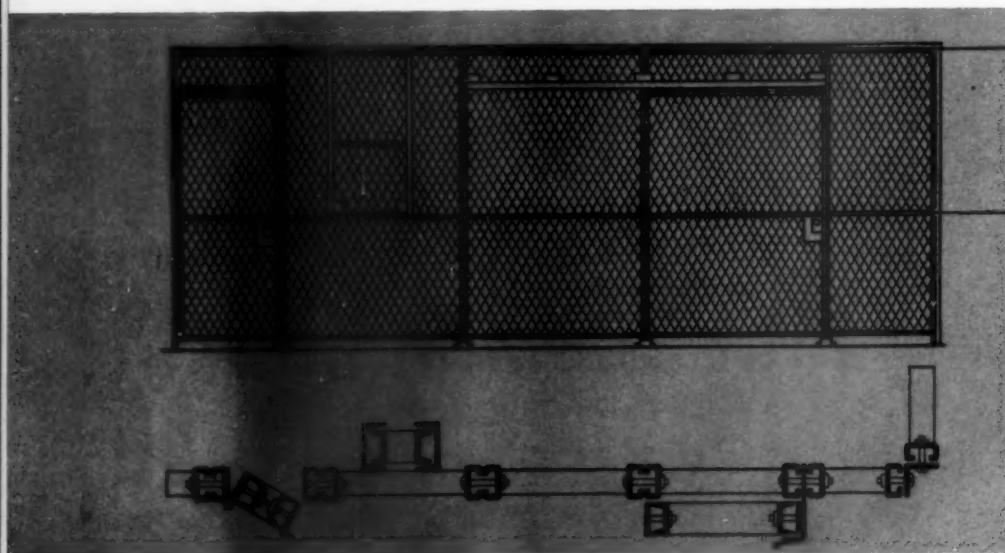
TALL PARTITIONS



11'-0" TO 20'-0"

This group covers partitions with upper and lower panels for heights in excess of 11'-0" usually extending from floor to overhead. Flat mulion bars are installed for vertical reinforcement between panels.

LOW PARTITIONS



7'-0" TO 10'-0"

hinged door section

(right hand illus.) available widths — 2'-6", 3'-0", 3'-6" and 4'-0" (larger widths are not recommended); height is 7'-0" (6'-6" in 7'-0" high partition); special sizes to order.

service window

vertical sliding with stainless steel spring catches; standard size 24" x 18"; can be installed in standard panels, hinged or sliding doors; steel shelf 24" x 12" (optional).

standard panels

available heights — 7'-0" to 20'-0" in increments of 1'-0"; width is 5'-0".

sliding door section

(right hand illus.) available widths — 3'-0", 3'-6", 4'-0" and 5'-0"; height is 7'-0" (6'-6" in 7'-0" high partition); special sizes to order.

filler panels

filler panels less than 5'-0" wide, where required, are furnished to order.

This group covers single panel partitions ranging in height from 7'-0" to 10'-0". Floor and/or ceiling bracing can be installed for added reinforcement where required.



Superior wire mesh partitions provide a definite contribution to modern industry's production and organization programs. Since all sections are interchangeable, change of partitions and their relocation are easily made. The passage of light and the circulation of air is not interrupted and maximum efficiency of sprinkler systems is assured. Their sturdy, rigid construction and neat appearance, make these partitions valuable assets to any building.

Type 35C Standard

Superior standard wire mesh partitions are recommended for stock and tool room enclosures, electrical equipment enclosures, warehouse partitioning, department segregation, and similar applications where maximum strength and flexibility are desired.

Type 45 Heavy Duty

Superior heavy duty wire mesh partitions are recommended for areas requiring maximum security. This rugged partition is often required in perimeter areas exposed to the operation of material handling vehicles.

Sheet Base

Standard wire mesh partition with 16 gauge steel sheet incorporated in lower 3'-6" of panel may be used with either type (35C or 45). Edges are formed and bolted to panel frame.

Consultation

A complete consultation and advisory service is available to architects. Inquiries are solicited on any special problems.

SPECIFICATIONS

Type No. 35-C — size group "L"

- a) Wire mesh partition shall be Superior Wire & Iron products type No. 35-C, size group L.
- b) 10 gauge (.135) steel wire, 1½" diamond mesh with wire securely clinched to framing.
- c) Wire shall be woven through a horizontal 1" x ½" x ⅛" channel bar at 3'-6" from bottom of partition.
- d) Vertical frames 1¼" x ⅝" "C" type, cold rolled channel. Horizontal frames 1" x ½" x ⅛" channel mortised and tenoned at intersections.
- e) Top capping bar 2¼" x 1" cold rolled channel with ¼" "U" bolts approximately 14" O.C.
- f) Corner post 1¼" x 1¼" x ⅛" angle.
- g) Cast iron floor shoes 2½" high with set screw adjustment.
- h) Door frames 1¼" x ½" x ⅛" channel with 1¼" x ⅛" cover plate on four sides.
- i) Sliding doors to have: two, 4-wheel ball-bearing trucks hung in enclosed box track; continuous 12 gauge door strike with keeper; box channel guide.
- j) Hinged doors to have: 1½ pair fast pin butts; continuous 12 gauge strike bar.
- k) 3" sweep space under all panels and doors.
- l) Bronze cylinder mortise type locks with cylinders individually keyed, keyed alike, and/or master keyed to building system. All locks to have recessed knob on inside.
- m) All hardware necessary for proper installation to be furnished.
- n) Finish: 1 shop coat steel grey gloss enamel (or specify other color if desired).

Type No. 35-C — size group "T"

"b" thru "n" same as for size group L, plus the following:

- a) Mullion bars between all panels to be ⅝" x 2" flat.

Type No. 45 — size group "L"

- a) Wire mesh partition shall be Superior Wire & Iron Products type No. 45, size group L.
- b) 6 gauge (.192) steel wire, woven into 2" diamond mesh, with wire securely clinched to framing.
- c) Wire shall be woven through a horizontal 1½" x ¾" x ⅛" channel bar at 3'-6" from bottom of partition.
- d) Frames 1½" x ¾" x ⅛" channel mortised and tenoned at intersection.
- e) Top capping bar, 2" x 1" x ⅛" channel.
- f) Corner post 1½" x 1½" x ⅝" angle.
- g) Cast iron floor shoes 2½" high with set screw adjustment.
- h) Door frames 1½" x ¾" x ⅛" channel with 1½" x ⅛" cover plate on four sides.
- i) Sliding doors to have: two, 4-wheel ball-bearing trucks hung in enclosed box track; continuous 12 gauge door strike with keeper; box channel guide.
- j) Hinged doors to have: 1½ pair fast pin butts; continuous 12 gauge strike bar.
- k) 3" sweep space under all panels and doors.
- l) Bronze cylinder mortise type locks with cylinders individually keyed, keyed alike, and/or master keyed to building system. All locks to have recessed knob on inside.
- m) All hardware necessary for proper installation to be furnished.
- n) Finish: 1 shop coat dipped steel grey gloss enamel (or specify other color if desired).

Type No. 45 — size group "T"

"b" thru "n" same as for size group L, plus the following:

- a) Mullion bars between all panels to be ⅝" x 2½" flat.

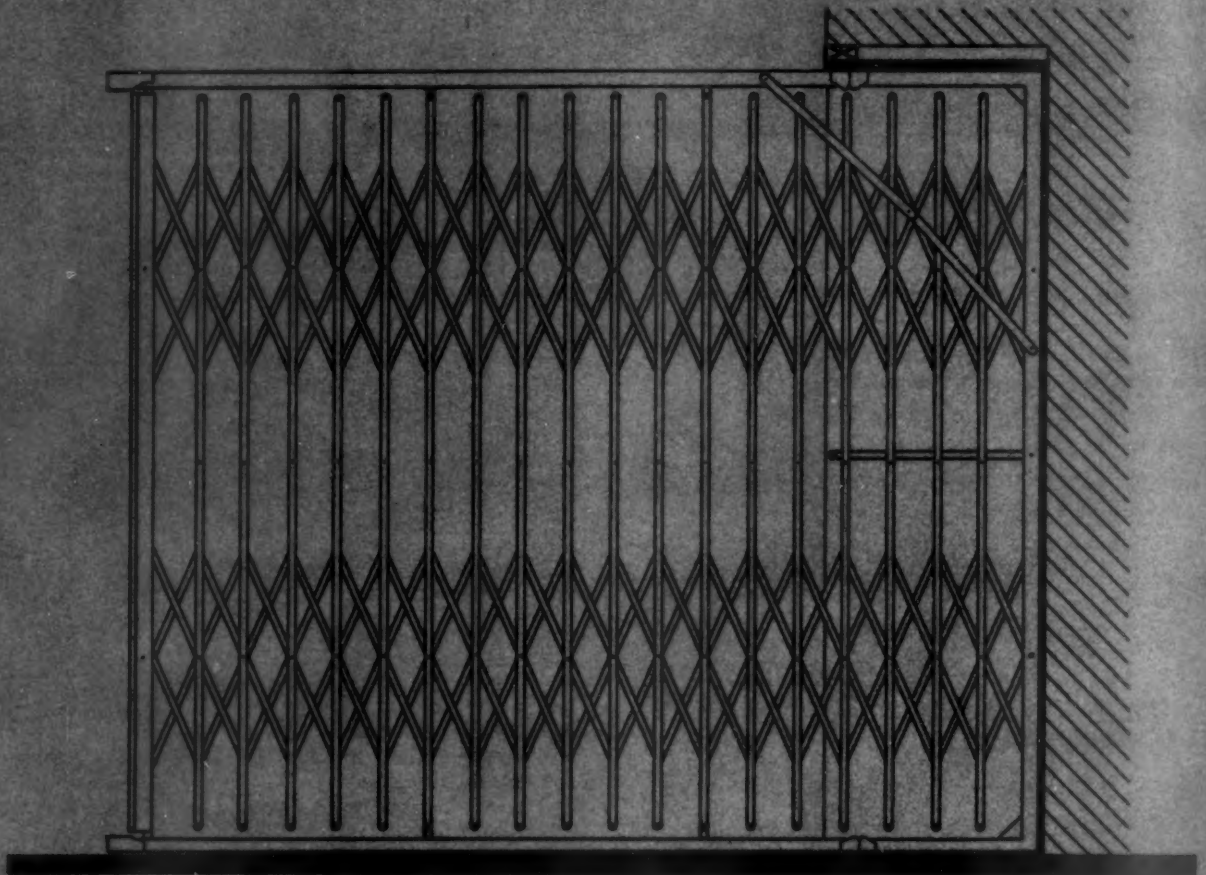
Sheet Base

Specifications for either 35C (L or T) or 45(L or T) remain the same, plus the following:

- p) 16 gauge steel sheet formed and bolted in lower 3'-6" portion of panel.

EXTRUDED ALUMINUM CORRIDOR GATES

Series 200-AL—folding top and bottom tracks
 —corridor width: 4'-0" to 16'-0"
 —height: normal 7'-0"



Deep Recess (Model D Cabinet shown above)

Model Numbers for Series 200-AL

		DERIVATION				MAXIMUM RECOMMENDED CORRIDOR WIDTH
		FM FACE MOUNTED	SM SURFACE MOUNTED	S SHALLOW RECESS	D DEEP RECESS	
SERIES 200	single gate	201-FM	201-SM	201-S	201-D	12'-0"
	pairs of gates	202-FM	202-SM	202-S	202-D	16'-0"

Recess Dimensions for Series 200-AL

—all width dimensions are Wood Openings
 —all depth dimensions are Masonry Openings

CORRIDOR WIDTH (feet)	SHALLOW RECESS (5 $\frac{5}{8}$ " deep) WIDTH		DEEP RECESS (5" wide) DEPTH	
	single	pair	single	pair
4	21"	17 $\frac{3}{4}$ "	20"	16 $\frac{3}{4}$ "
5	22 $\frac{1}{2}$ "	18 $\frac{3}{4}$ "	21 $\frac{5}{8}$ "	17 $\frac{1}{2}$ "
6	24 $\frac{1}{4}$ "	19 $\frac{1}{2}$ "	23 $\frac{1}{4}$ "	18 $\frac{3}{8}$ "
7	26"	20 $\frac{1}{4}$ "	24 $\frac{7}{8}$ "	19 $\frac{1}{4}$ "
8	27 $\frac{1}{2}$ "	21"	26 $\frac{1}{2}$ "	20"
9	29"	21 $\frac{3}{4}$ "	28 $\frac{1}{8}$ "	20 $\frac{3}{4}$ "
10	34"	22 $\frac{1}{2}$ "	31 $\frac{3}{4}$ "	21 $\frac{5}{8}$ "
11	35 $\frac{1}{2}$ "	23 $\frac{1}{2}$ "	33 $\frac{3}{8}$ "	22 $\frac{1}{2}$ "
12	37 $\frac{1}{4}$ "	24 $\frac{1}{4}$ "	35"	23 $\frac{1}{4}$ "
13	39"	25 $\frac{1}{4}$ "	36 $\frac{5}{8}$ "	24"
14	40 $\frac{1}{2}$ "	26"	38 $\frac{1}{4}$ "	24 $\frac{7}{8}$ "
15		26 $\frac{3}{4}$ "		25 $\frac{3}{4}$ "
16		27 $\frac{1}{2}$ "		26 $\frac{1}{2}$ "

note: (1) Height of Recess Wood Opening is 2" greater than the height of gate.

(2) Height of Recess Masonry Opening is 3 $\frac{1}{8}$ " greater than the height of gate.

**extruded aluminum
collapsible corridor gates
bostwick type**

Superior extruded aluminum corridor gates, while functional as an integral part of modern school planning in controlling pedestrian traffic, are also an asset by reason of their attractive appearance, sturdy construction and ease of operation.

ADVANTAGES

- **EASE OF OPERATION**
As strong as steel with one-third the weight
- **NYLON SELF-LUBRICATING ROLLERS**
- **LOW MAINTENANCE**
- **LASTING APPEARANCE**
- **FINISH**
Choice of Alumilite or lacquer
- **EASY TO INSTALL**
No permanent ceiling tracks necessary.

SPECIFICATIONS

- a) Extruded aluminum corridor gates shall be Superior Wire & Iron Products Series No. 200-AL, Model No. _____.
- b) Vertical bars $\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{8}$ " extruded aluminum channels spaced 6" on center, shears or lattice bars $\frac{3}{8}$ " x $\frac{3}{16}$ " extruded aluminum flat stock with $\frac{1}{4}$ " radius on four sides.
- c) Fully enclosed extruded aluminum end bars, $1\frac{1}{8}$ " x $1\frac{1}{8}$ " No. 12 gauge.
- d) Alloy and temper shall be 6063-T5.
- e) Automatic self-locking tie backs.
- f) Chrome plated brass washers throughout gate construction.
- g) Shears suspended in vertical channels with free-floating self-lubricating nylon rollers.
- h) Extruded aluminum top and bottom folding track, fully enclosed type $1\frac{1}{8}$ " x $1\frac{1}{8}$ ", No. 12 gauge.
- i) Self-locking hold-up arm for top track.
- j) Aluminum gussets No. 14 gauge, welded to all corners of gates.
- k) Ball bearing rollers with nylon races in tracks spaced every 3'-6" or less.
- l) Rubber rests for bottom track.
- m) Gate lock to be self-locking type with aluminum case and heavy bronze tongue.
- n) Cylinders both sides of gate.

Finish: Choice of Three

- a) Satin with two coats clear acrylic lacquer.
- b) Alumilited aluminum.
- c) Alumilited gold.

Add to above, applicable cabinet specifications—if used.

Model S Cabinet

Flush type cabinets to be 16 gauge, (.065) sheet steel. 3 " x $4\frac{1}{2}$ " x $\frac{3}{16}$ " cold rolled zee frames. Formed 16 gauge sheet steel door with continuous hinges. Gates shall have continuous hinges, two 1'-0" sections per gate, to enable cabinet door to remain in locked position when gate is extended. Bronze cylinder lock on cabinet keyed same as gate.

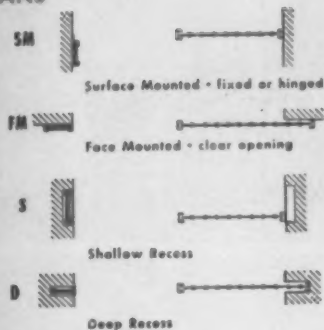
Finish: Color as selected to match corridor walls.

Model D Cabinet

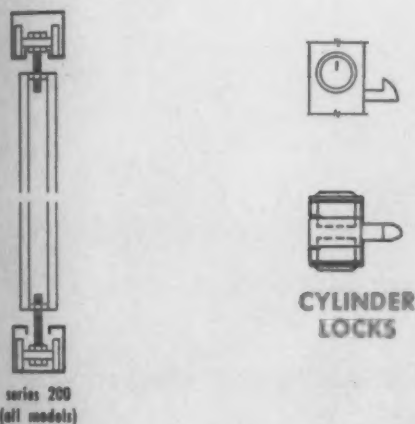
Flush type cabinets to be 12 gauge (.109) sheet steel. 3 " x 2 " x $\frac{3}{16}$ " cold rolled angle frames. Formed 12 gauge (.109) sheet door with continuous hinges. Bronze cylinder lock on cabinet keyed same as gate.

Finish: Color as selected to match corridor walls.

BASIC PLANS

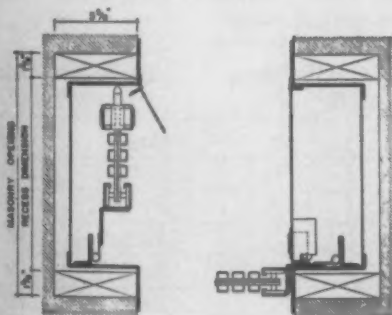


TRACK SECTIONS

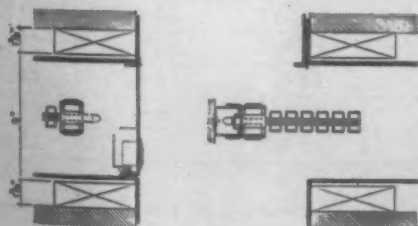


**CYLINDER
LOCKS**

SHALLOW RECESS

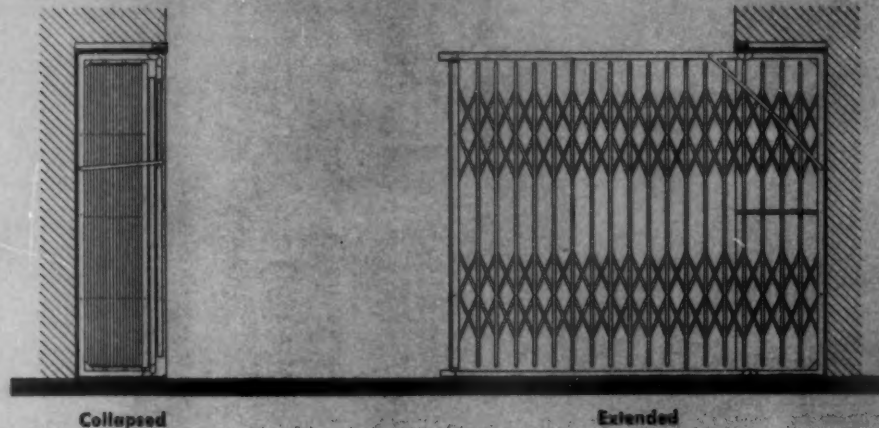


DEEP RECESS

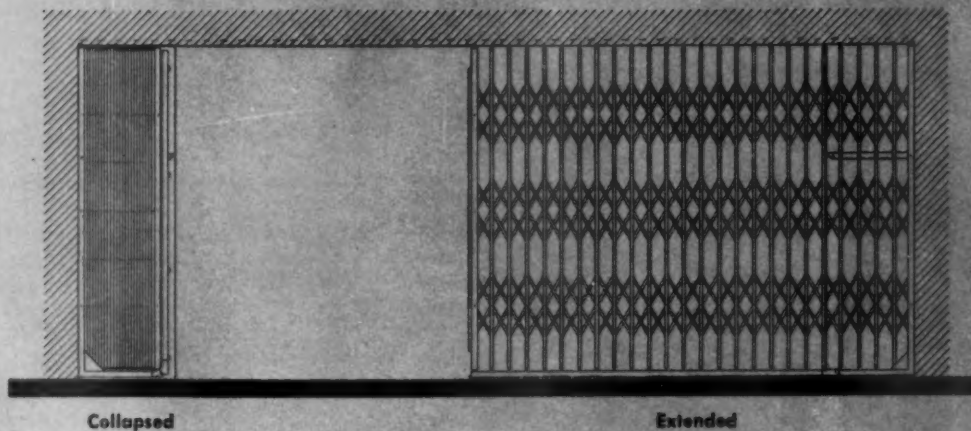


COLLAPSIBLE GATES

Series 200—folding top and bottom tracks (Deep recessed shown)
—corridor width: 4'-0" to 16'-0"
—height: normal 7'-0"



Series 300—permanent top track exposed or recessed (Deep recessed shown)
—folding bottom guide
—corridor width: unlimited
—gate height: same as corridor ceiling



Model Numbers for Series 200 and 300

		DERIVATION				MAXIMUM RECOMMENDED CORRIDOR WIDTH
		FM FACE MOUNTED	SM SURFACE MOUNTED	S SHALLOW RECESS	D DEEP RECESS	
SERIES 200	single gate	201-FM	201-SM	201-S	201-D	12'-0"
	pairs of gates	202-FM	202-SM	202-S	202-D	16'-0"
SERIES 300	single gate	301-FM	301-SM	301-S	301-D	12'-0"
	pairs of gates	302-FM	302-SM	302-S	302-D	24'-0"

Recess Dimensions for Series 200 and 300

—all width dimensions are Wood Openings
—all depth dimensions are Masonry Openings

CORRIDOR WIDTH (feet)	SHALLOW RECESS (5 5/8" deep) WIDTH		DEEP RECESS (5" wide) DEPTH	
	single	pair	single	pair
4	21"	17 3/4"	20"	16 3/4"
5	22 1/2"	18 3/4"	21 5/8"	17 1/2"
6	24 1/4"	19 1/2"	23 1/4"	18 3/4"
7	26"	20 1/4"	24 7/8"	19 1/4"
8	27 1/2"	21"	26 1/2"	20"
9	29"	21 3/4"	28 1/8"	20 3/4"
10	34"	22 1/2"	31 3/4"	21 5/8"
11	35 1/2"	23 1/2"	33 3/8"	22 1/2"
12	37 1/4"	24 1/4"	35"	23 1/4"
13	39"	25 1/4"	36 5/8"	24"
14	40 1/2"	26"	38 1/4"	24 7/8"
15		26 3/4"		25 3/4"
16		27 1/2"		26 1/2"

note: (1) Height of Recess Wood Opening is 2" greater than the height of gate.
(2) Height of Recess Masonry Opening is 3 3/8" greater than the height of gate.

collapsible gates bostwick type

Superior collapsible gates are available in many types and sizes to meet all requirements in regulating the flow of vehicular and pedestrian traffic, and in preventing unauthorized entry or exit. Their principal uses are in modern school corridors, across driveways, in tunnels and across thoroughfares.

SPECIFICATIONS

General

- Collapsible gates shall be Superior Wire & Iron Products Series No. _____ Model No. _____
- Vertical bars $\frac{3}{4}$ " x $\frac{3}{8}$ " cold rolled channels spaced 6" on center, shears or lattice bars $\frac{3}{8}$ " x $\frac{3}{8}$ " cold rolled stock.
- Fully enclosed cold rolled end bars $1\frac{1}{8}$ " x $1\frac{1}{8}$ ", No. 14 gauge (.083).
- Automatic self-locking tie backs.
- Brass washers throughout gate construction.
- Shears suspended in vertical channels with free-floating rollers.
- Gate lock to be of self-locking type with heavy bronze tongue and cylinders on both sides of gate.
- Cylinders (any make) keyed alike and/or master keyed to the building system for both cabinets and gates.
- Finish: Factory finish steel grey gloss enamel (or specify other color if desired).

Add to above, portions below which pertain to selection.

Series 200—all models

- Top and bottom folding track fully enclosed type $1\frac{1}{8}$ " x $1\frac{1}{8}$ ", 14 gauge (.083).
- Steel gussets 16 gauge (.065) welded to all corners of gates.
- Ball bearing rollers in tracks spaced every 3'-6" or less.
- Rubber rests for bottom track.
- Hold-up brace for top track.

Series 300—shallow cabinet or surface mounted.

- Permanent top guide to be $1\frac{1}{8}$ " x $1\frac{1}{8}$ " x No. 14 gauge (.083) fully enclosed type, coped out at one end to allow gate to hinge.
- Guide to be exposed on ceiling surface.
- Guide pins at top of gate to engage ceiling guide.
- Folding bottom track to be $1\frac{1}{8}$ " x $1\frac{1}{8}$ " x No. 14 gauge (.083) fully enclosed type.
- Four-wheel ball bearing trucks spaced approximately 3'-6" O.C.
- Rubber rests at bottom of track.

Series 300—deep cabinet or face mounted.

- Permanent overhead track to be $1\frac{1}{8}$ " x $1\frac{1}{8}$ " x No. 14 gauge (.083) box track.
- Track to be recessed into ceiling, or exposed on surface—specify choice.
- Necessary track hangers shall be included.
- Four-wheel ball bearing trucks spaced approximately 3'-0" O.C.
- Bottom folding guide fully enclosed type, $1\frac{1}{8}$ " x $1\frac{1}{8}$ " x No. 14 gauge (.083).

Add to above, applicable cabinet specifications—if used.

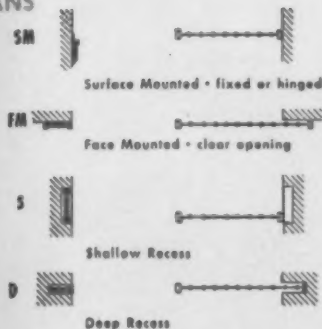
Model S Cabinet

Flush type cabinets to be 16 gauge (.065) sheet steel. 3 " x $4\frac{1}{2}$ " x $\frac{1}{16}$ " cold rolled zee frames. Formed 16 gauge sheet steel door with continuous hinges. Gates shall have continuous hinges, two 1'-0" sections per gate, to enable cabinet door to remain in locked position when gate is extended. Bronze cylinder lock on cabinet keyed same as gate.

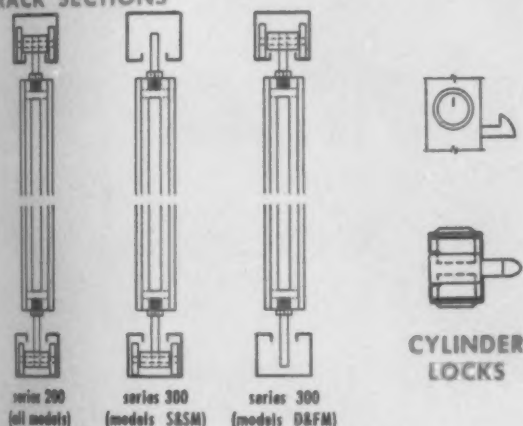
Model D Cabinet

Flush type cabinets to be 12 gauge (.109) sheet steel. 3 " x 2 " x $\frac{1}{16}$ " cold rolled angle frames. Formed 12 gauge (.109) sheet steel door with continuous hinges. Bronze cylinder lock on cabinet keyed same as gate.

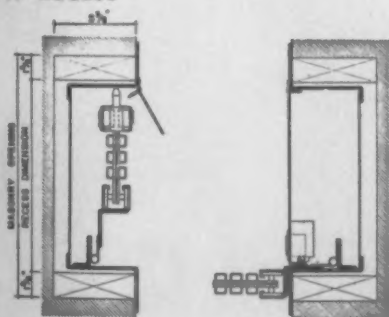
BASIC PLANS



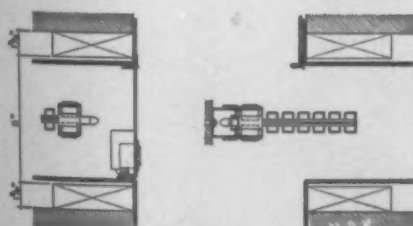
TRACK SECTIONS



SHALLOW RECESS

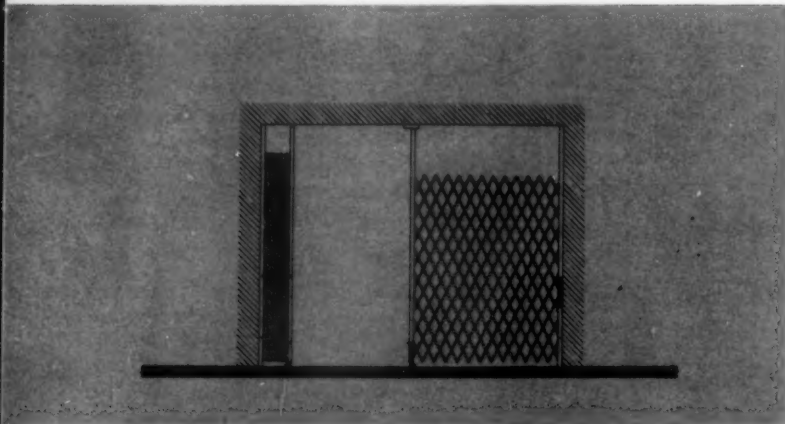


DEEP RECESS



INDUSTRIAL GATES

lazy-tong type



Series 400—normal height 6'-0" to 8'-0"

For all types of openings such as shipping and receiving docks, entrances and exits, passage ways and halls.

Series 500—normal height 8'-0" to 12'-0"

For all types of openings as suggested for Series 400. The overhead track assures smoother operation and its use is recommended where the ceiling is too high to warrant the use of free-standing gates.

Opening Widths

Single (model 401)—6'-0" max

Pair (model 402)—12'-0" max

Single (model 501)—6'-0" max

Pair (model 502)—any width opening may be used.

WINDOW GUARDS

two construction types



MODELS

700 C: (stationary type)

700 R: (stationary type)

800 C: (removable type)

800 R: (exterior hinging)

900 C: (hinged type)

900 R: (interior hinging)

type C: Constructed of channel frame which affords maximum strength for large windows, removable panels, gymnasium guards, and institutional detention ward applications.

type R: Constructed of round rod frame. Its most usual applications are for factories, stores, and homes. This window guard can be fabricated at a lower cost to the owner, and maximum protection against burglary or glass breakage is still assured.

SPECIFICATIONS

general

- a) Collapsible gates shall be Superior Wire & Iron Products series no. 400 or 500 (specify).
- b) Diamond lattice work to be $\frac{3}{4}$ " x $\frac{3}{8}$ " x $\frac{1}{8}$ " channel riveted 6" on center.
- c) Fully enclosed end bars $1\frac{1}{8}$ " x $1\frac{3}{8}$ " 14 gauge (.083) with return bends of $\frac{5}{16}$ " and $\frac{1}{4}$ " respectively.
- d) Gate to have free floating rollers suspended in end bars.
- e) Pivot type tie-backs welded to end bars.
- f) Brass washers throughout gate construction.
- g) Gates to be arranged for padlocking or complete with built-in cylinder locks (specify).
- h) Finish: one shop coat dipped steel grey gloss enamel (or specify other color if desired).

Add to above, portions below which pertain to selection.

series no. 400

- i) Gate to have $2\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{5}{16}$ " continuous angle hinge bar with $1\frac{1}{2}$ pair fast pin butt.
- j) Single type gate to have $2\frac{1}{2}$ " x $1\frac{1}{2}$ " x $\frac{5}{16}$ " continuous angle lock bar.
- k) Pairs of gates to have "H" type brackets at overhead to receive end bars.
- l) $\frac{3}{8}$ " round shove bolts for locking at floor.
- m) $2\frac{1}{2}$ " steel replaceable casters welded to bottom of end bar to aid in carrying load.

series no. 500

- i) Overhead track to be R-W No. 31 with 4-wheel ball bearing trucks secured to top of end bars.
- j) $\frac{3}{8}$ " round shove bolts for locking at floor.

SPECIFICATIONS

type C:

- a) Wire mesh window guards shall be Superior Wire & Iron Products Type C, model no. 700C, 800C or 900C. (specify).
- b) Constructed of 9 W. & M. gauge (.148) steel wire crimped and woven into $1\frac{1}{2}$ " diamond mesh.
- c) Wire shall be let into channel frames and securely clinched.
- d) Frames, 1 " x $\frac{1}{2}$ " x $\frac{1}{8}$ " channel mortised and tenoned at intersections.
- e) All hardware necessary for proper installation to be furnished.
- f) Finish: one shop coat dipped steel grey gloss enamel.

type R:

- a) Wire mesh window guards shall be Superior Wire & Iron Products type R, model no. 700R, 800R or 900R (specify).
- b) Constructed of 9 W. & M. gauge (.148) steel wire crimped and woven into $1\frac{1}{2}$ " diamond mesh.
- c) Wires shall be machine clinched around frame.
- d) Frames, $\frac{3}{8}$ " round rod.
- e) All hardware necessary for proper installation to be furnished.
- f) Finish: One shop coat dipped steel grey gloss enamel.



SUPERIOR WIRE & IRON PRODUCTS

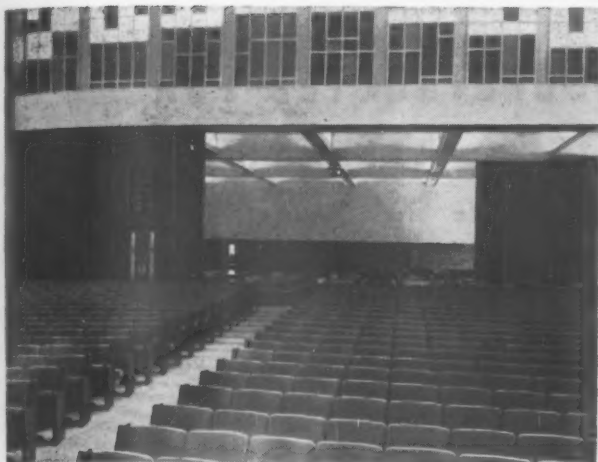
1051 East 78th Street

Chicago 19, Illinois

Phone: RAAdcliffe 3-3456

TORJESEN, INC.

Plant and Executive Offices: 209-25th Street, Brooklyn 32, N. Y.



THE TORJESEN "Wall-A-Way" FOLDING PARTITION Available with Electrical, Mechanical or Manual Operation to divide Gymnasiums, Auditoriums, Classrooms, Offices, etc.



NOW—for the same price as duck, you can have a vinyl covered partition that cuts maintenance costs from 75% to 80%!

For complete information send for our latest catalog containing photographs of the various types of partition installations, diagrammatic drawings and specifications, swatches of vinyl coverings, etc. You'll find a wealth of information on the more efficient utilization

of valuable space in gymnasiums, auditoriums, schools, churches, banquet halls, commercial buildings, etc.

The Torjesen design and engineering staff welcomes your inquiries on any kind of partitioning problem. It will provide suggestions during the planning stage and will gladly submit, without obligation, plans, specifications and costs.

You are cordially invited to visit our plant and tour its facilities

Affiliates { CAPITAL CUBICLE CO., INC. • Cubicle and Track
BAR-RAY PRODUCTS, INC. • X-Ray Accessories and Radiation Protection

AMERICAN SCHOOL AND UNIVERSITY—1958-59

THE SANYMETAL PRODUCTS COMPANY, INC.

1702 Urbana Road • Cleveland 12, Ohio

FINEST IN TOILET COMPARTMENTS • SHOWER STALLS • URINAL SCREENS

TOILET COMPARTMENTS CONSTRUCTED FOR LONG LIFE — LOW MAINTENANCE — ATTRACTIVENESS

Choosing the right toilet compartments for school washrooms is highly important. Equipment that produces an atmosphere of cleanliness, dignity, and attractiveness encourages respect for and proper use of facilities.

Sanymetal Compartments create such an atmosphere for the life of the building. Quality distinguishes Sanymetal construction. Designs are beautiful, and at the same time planned for strength and long life. The materials used

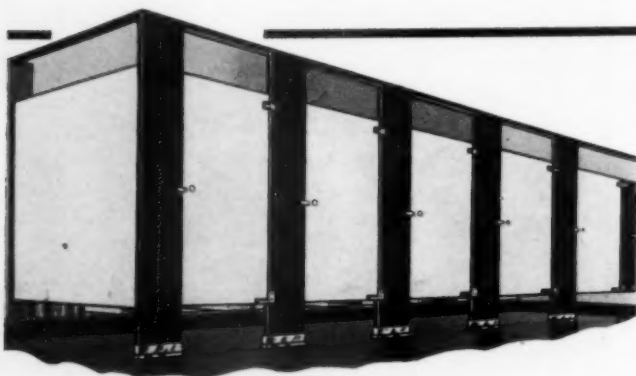
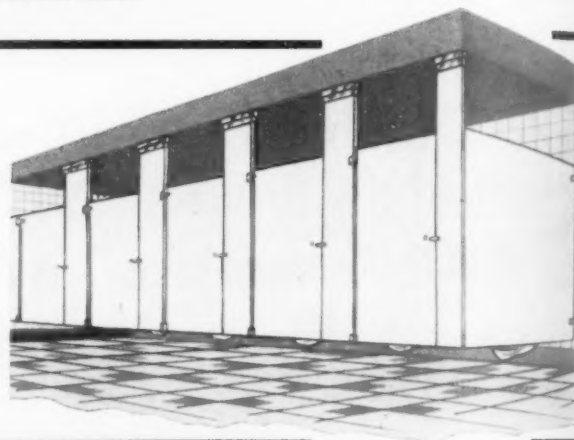
resist severe abuse. Many unique features contribute to long service and low maintenance cost. This quality is an outgrowth of Sanymetal's 44 years' experience. Be sure you get no less.

COMPARTMENT STYLES

CENTURY Ceiling-Hung

Unobstructed floors sharply reduce maintenance and cleaning costs. Get this advantage, and the extra attractiveness of ceiling-hung design, with Sanymetal CENTURY Toilet Compartments. CENTURY

Compartments are held rigid by strong, trouble-free connections to overhead carrying members, a Sanymetal patent. This style is available in all Sanymetal finishes and colors.



ACADEMY Floor-Supported, Overhead-Braced

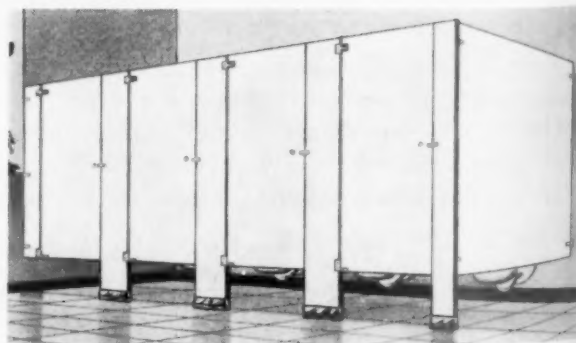
Overhead bracing of ACADEMY flush-type design permits a strong, rigid installation, satisfactory where floor, subfloor, or ceiling construction is such that the usual floor- or ceiling-mounted compartments would

be insufficiently rigid. Note the unique Sanymetal jackscrew leveling and supporting method, used on ACADEMY Compartments, described opposite. Available in all Sanymetal colors, finishes.

NORMANDIE Floor-Supported

The NORMANDIE is similar in every respect to Sanymetal CENTURY Compartments, except that it is floor-supported. (Before selecting this style, consult a Sanymetal Representative about the

floor construction required for satisfactory installation.) Floor connections producing permanent rigidity are a Sanymetal patent. Available in all Sanymetal colors and finishes.



THE SANYMETAL PRODUCTS COMPANY, INC.

SPECIAL FOR SCHOOLS

JUNIOR-HEIGHT COMPARTMENT

Normandie type, same quality features as full-size units. Panels and doors are at maximum 48" high, set 12" off floor, with overall maximum height of 60". Reduced dimensions are in proportion to small children up to the age of 9. Low overall height permits proper observation by supervisors, while affording child privacy from other children.



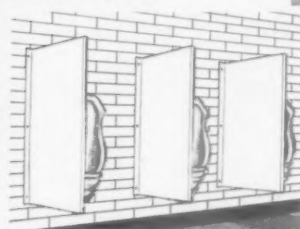
SHOWER STALLS & DRESSING COMPARTMENTS

Available in all designs. Built for long life with low maintenance. Many varied economical arrangements possible with standard parts.



URINAL SCREENS

Flush-type screens, wall-hung or floor supported, in all Sanymetal colors and finishes.



FINISHES



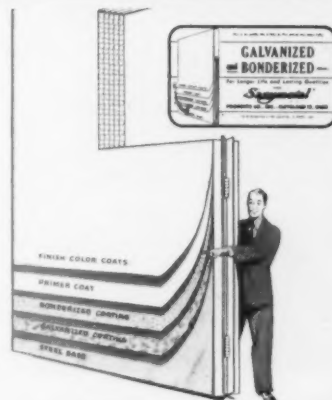
Sanymetal
PORCENA
(Vitreous Porcelain on Steel)

Sanymetal PORCENA meets Porcelain Enamel Institute standards for genuine, acid-resisting porcelain enamel. Hard as glass, with the natural strength of steel, it resists damage and defacement, it never requires refinishing.

Sanymetal
TENAC

The "TENAC" label certifies use of furniture steel, galvanized, and Bonderized**, and with two coats of quality synthetic enamel baked-on. This 4-fold protection give satisfactory service. Accept no less.

** Bonderite—product of Parker Rust Proof Co.

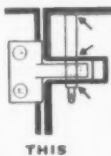


WHAT TO LOOK FOR:

OUTSTANDING EXAMPLES OF SANYMETAL'S MANY QUALITY MECHANICAL FEATURES—DIFFERENCES THAT GIVE YOU YOUR MONEY'S WORTH IN SERVICE.

INSET TYPE TOP HINGE

on all Sanymetal doors provides 3-point support, prevents misalignments, stands abuse, eliminates wear. Will support the weight of an adult swinging on door without damage.



THIS

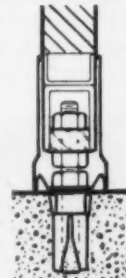


NOT THIS

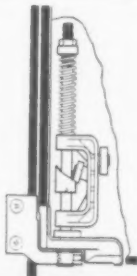
WELDED DOOR UNIT construction provides a door panel that stays flat without wind and in line even when it is severely abused. Door surfaces are welded at the edges to form a strong structural unit.



TROUBLE-FREE FLOOR CONNECTIONS by a Sanymetal patented method produce firm, rigid connections for floor-braced types. Fittings are heavy duty and concealed. Ceiling connections are same design.



FULLY CONCEALED BOTTOM HINGE (by test proved to give over 301,000 cycles of use without noticeable wear.) Controlled-action positions door. Fully bearingized, always works easily.

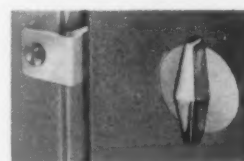


QUICK, PERMANENT LEVELING by built-in jack-screw saves field labor. Screw supports compartment weight direct to floor, cannot slip. Holds overhead-braced compartment permanently in line.



**NEW
8800
LATCH**

Again Sanymetal offers a design and engineering advance—new latch looks better, is completely tamper-proof, fully tested for long wear.

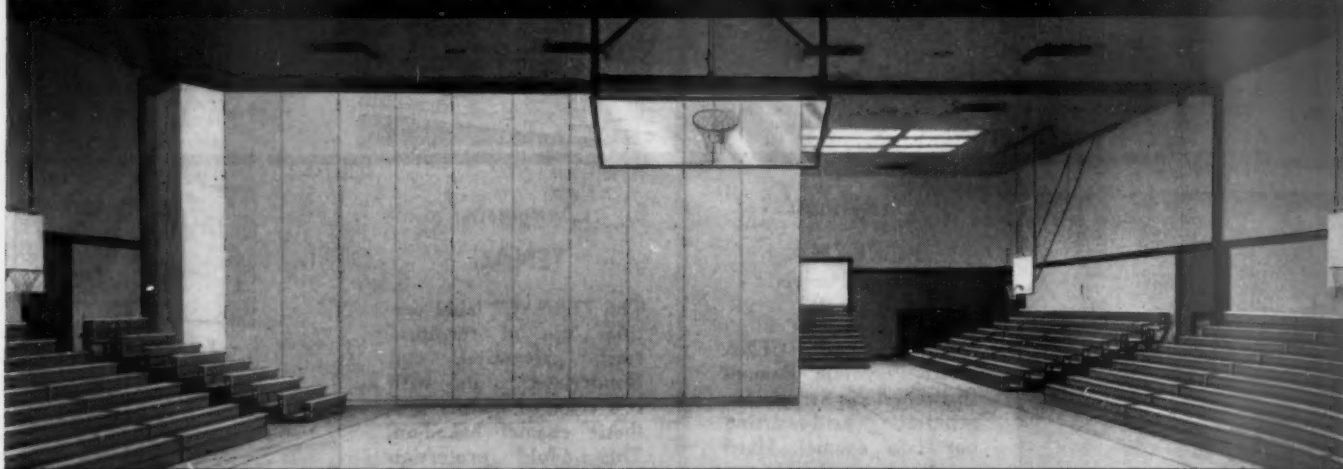


SEND FOR Catalog 95, describing all Sanymetal Compartments (or see Sweet's, file $\frac{22b}{5a}$) for full description of all Sanymetal Products.

WAYNE IRON WORKS

Wayne, Pennsylvania

WAYNE AUTOMATIC ELECTRIC FOLDING PARTITIONS

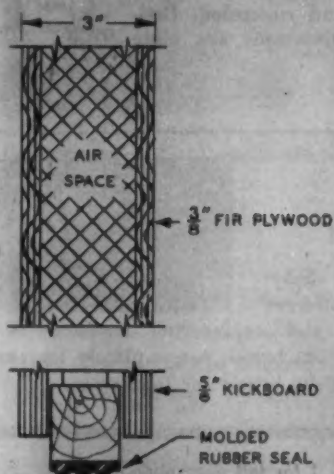


for GYMNASIUM • CLASSROOM • AUDITORIUM

Wayne Automatic Electric Folding Partitions provide a convenient, flexible means of dividing a single area—such as a gymnasium, auditorium, or large classroom—into two or more smaller classrooms. When fully extended, the hinged panels of the partition present a flush-surface approximating a solid wall. This is sound-proof and can be decorated in keeping with the general surroundings. When not in use, the partition folds back compactly against the wall.

The folding, unfolding, locking and unlocking of the Wayne Partition are completely automatic. An electric motor powers these operations through a sprocket and chain drive. A conveniently located, electrical, key switch provides control. Wayne Partitions operate smoothly and quietly, traveling on a 4" I-beam track. Side guide rails and rollers assure friction-free straight-line motion. No floor track is required, which leaves the floor area free of obstacles when the partition is folded.

STANDARD PANEL



STANDARD PANEL CONSTRUCTION

Wayne's Folding Partition standard type of panel construction is illustrated at left. Other types of panel construction and panel coverings are available as described below where the standard type does not meet special requirements. Consult your Wayne Representative or write direct for information concerning your specific problem.

ALTERNATE PANEL INSULATION—Wayne can furnish, at added cost, panel insulation of Spun Felt, Soft-Board, or Honeycomb.

ALTERNATE PANEL COVERINGS—Wayne can furnish, at added cost, the following types of Panel Coverings: Canvas Duck, Tempered Masonite, Birch or Oak Veneer, Vinyl Plastic and Aluminum Sheet. These coverings are available in any combination of full height or wainscot and top.



WALL-HUNG EQUIPMENT

for schools, libraries, offices

TO MEET YOUR INDIVIDUAL REQUIREMENTS

STANDARD BRACKET-TYPE SHELVES

Plain or with vertical dividers, these sturdily-built steel shelves accommodate such items as books, magazines, newspapers, record players and other classroom supplies.

Install at any desired heights.

Length: 36" Depths: 8", 10" or 12"



CHALKBOARDS

Vertically mounted blackboards, with all their multitude of uses in classrooms or in meetings, are quickly and easily installed or adjusted to the height of the teacher or any age group of students.

Width: 35½" or 71½" Height: up to 48"

* See note below



COAT-RACK SHELVES

Eliminating the need for a separate coatroom, Ames dual-purpose shelves provide classroom space for lunches, hats and bundles, with a rod below for hanging coats and jackets. Adjust height to children's ages.

Length: 36" Depth: 12"



TACKBOARDS AND PEGBOARDS

The ever-present problem of finding a convenient place for posting notices, bulletins, displays and exhibits of pupils' handiwork finds a solution in wall-mounted tackboards and pegboards, movable from place to place.

Tackboards . . . Width: 35½" or 71½" Height: up to 48"

Pegboards . . . Width: 36" Height: up to 24"

* See note below



SLOPING DISPLAY SHELVES

The sloping shelves, with a ridge on the forward edge to prevent any sliding, are ideal for displaying and reading of magazines and periodicals. Store back issues on a level shelf below the sloping one.

Length: 36" Depth: 10" Surface: 14½"



save space...time...money...effort

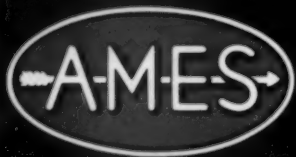
LIGHTWEIGHT DESKS

Extra depth in these sturdy, steel shelf-tops makes them useful as desks or as storage or display areas for larger materials. Without the usual large end brackets, they offer a smooth writing surface.

Length: 36" Depth: 18"



*IMPORTANT NOTE: Mounting strips will accommodate boards of sizes shown above. Ames supplies the mounting or wall strips. Most school equipment suppliers are prepared to provide the chalkboards, pegboards and tackboards.



WALL-HUNG EQUIPMENT

maximum flexibility at minimum cost

EASIER TO INSTALL...

The vertical steel columns which hold all Ames Wall-Hung units in place are simply and quickly installed. They are attached to the wall at 36 inch intervals by school maintenance personnel. When columns are attached to a wall, their perforated slots will accommodate the supporting end brackets of all shelves and boards.



EASIER TO ADJUST...



A primary advantage in using Ames Wall-Hung Equipment is that changes may be made with no delay. Chalkboards, tackboards and pegboards may be interchanged in a moment's time, according to the needs of the classroom or adult meeting. Shelves may be placed at any height desired, according to the ages of children in a class, or the size of books on the shelf below. They may be moved upward or downward, or lengthened by the addition of more 3 foot units. Items can be moved from place to place, making rooms more versatile.

WITH 3-FOLD SAVINGS...

time

A whole display, a whole shelf of books or exhibits, can be moved and replaced within a few moments, and with a minimum of effort. Everything that is wall-mounted for a classroom or a meeting is quickly placed where needed.



money

The portability of wall-hung equipment makes it obviously economical. Costs can be reduced as much as 50% by using this equipment instead of free-standing cabinets or permanently built-in shelves and boards.



space

The ability to attach Ames shelves, display boards and desks to any wall in a room permits maximum use of available space. Too, it often frees other rooms ordinarily needed for storage or as cloakrooms.



TO MEET YOUR INDIVIDUAL REQUIREMENTS

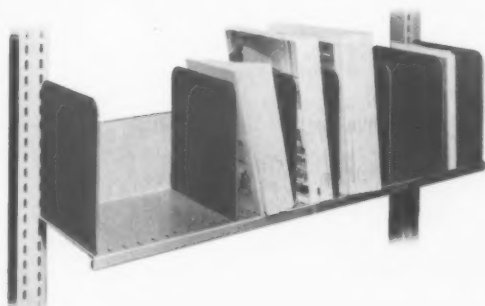
Whatever your special needs or problems may be, W. R. Ames Company will be happy to help you meet them by supplying, without cost or obligation to you, additional information on types and sizes of equipment, budget prices, suggested room layouts and descriptions and photos of other recent installations of a comparable nature.



WALL-HUNG EQUIPMENT *and supplementary equipment*

Here are the invaluable "extras" designed by Ames to provide added usefulness for wall-mounted shelves and boards, and to make storage, display and reference easier and faster.

DIVIDED SHELVES FOR VERTICAL FILING



Ames Divided Shelves provide a low cost, time and space-saving system for the upright filing and storing of folders, phonograph records, periodicals, etc., which will not stand alone vertically on standard shelving. Label holders (see below) can be attached and dividers arranged to form compartments for individual students' work materials.

Ames Divided Shelves, available in 10, 12 and 14 inch depths, are interchangeable with practically all makes of bracket-type book shelving.

BOOK TRUCKS WITH REMOVABLE SHELVES

Ames Book Trucks accommodate six standard 36 inch bracket-type shelves, which are removable and interchangeable on the slotted uprights on either truck or wall. This allows moving loaded shelves to and from the point of use. Trucks are also useful for temporary storage, reshelving of returned books, as a portable display case, etc. Dimensions: height, 40½"; width, 16"; length, 39½"; weight with six shelves, 75 lbs.



BOOK SUPPORTS

wire type

Available for 8", 10" and 12" shelves. Supports snap into flanges of shelf above books to be supported. Easily adjusted by hand pressure.



plate type

Available in one size for all shelf depths.



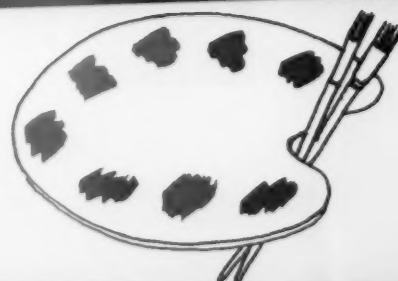
shelf label holder

Statuary bronze plated. Snaps on front edge of shelf. No projection to interfere with or damage books. Accommodates 2 x 12.5 cm. standard label.



All this and COLOR, too!

Ames Wall-Mounted Equipment is available in a choice of 18 attractive colors, to harmonize with any room finish and other furnishings.





WALL-HUNG EQUIPMENT

specifications

NOTE:

This specification is intended as a convenience for architects and others specifying wall-hung equipment. Special equipment should be specified in detail. Specifications are available for all library equipment and accessories.

SPECIFICATIONS FOR WALL-HUNG EQUIPMENT:

GENERAL DESCRIPTION: The shelving shall be Bracket-Type Wall-Hung steel library shelving. Columns shall consist of column strips perforated on 1" centers to allow maximum vertical adjustability of the shelves. These strips shall be of no less than 18-ga. material and shall be suitable for direct fastening to the walls. These channel-shaped strips shall be of sufficient depth to receive the bracket hooks, yet remain as close to the wall as possible. These strips shall be 7'-6" in height or as specified on the drawing.

SHELVING: Shelving shall be selected from the types below and in the quantities indicated on the drawings or as listed in the specifications:

1. Standard shelving. All book shelves shall be 18-ga. steel formed to a $\frac{3}{4}$ " deep open box section at front and back edges. Brackets for book shelves shall be 16-ga. steel with front and top edges rolled outward, approximately $\frac{1}{4}$ ". The front upper corner shall be rounded to a generous radius. The back edge shall have two hooks for support and one lug to maintain alignment and to prevent accidental dislodgment of brackets. Brackets shall be joined to shelves without fastenings. The bracket shall have a smooth, continuous hem into which the shelf end nests, leaving no raw edge or projections. Brackets shall remain upright when shelves are removed, for ease in relocating. The complete assembly of shelf and bracket, when hung on uprights, shall be capable of supporting a uniformly distributed load of 40 lbs. per sq. ft. with no permanent distortion. 8", 10", or 12" shelves are available.
2. Lightweight desks. 18" deep shelf with concealed brackets.
3. Board mounting hardware. Horizontal channel top and bottom with hooks to engage column slots. Specify if chalk or tack boards are to be supplied by Ames under this specification.

4. Coat rack shelves. Standard 12" shelves with aluminum tube beneath to accommodate coat hangers.
5. Divided shelves. Shelves shall be divided type which consists of a shelf with integral back slotted on one inch centers to receive removable adjustable vertical dividers of 16-ga. steel. Slots in the shelf and back shall be arranged to permit both shelves and dividers to be locked in position so that they cannot be removed accidentally. Specify 10" with 9" high dividers, 12" with $6\frac{1}{2}$ " high dividers, or 14" with 9" high dividers.
6. Magazine shelves. Sloping magazine display shelves shall be of 18-ga. steel with turned-down flanges on the ends and back. The front edge shall be hemmed and then turned up to form a lip of approximately $\frac{3}{4}$ ". The brackets shall be 16-ga. steel with projecting hooks to engage in the perforations of the conventional column. The brackets shall be designed so that they do not project above the surface of the shelf, thus providing a continuous sloping surface across adjacent units. These sloping shelves can be used alternately with a flat shelf so that back issues of the periodicals can be stored on the flat shelf. Specify if desired.

ACCESSORIES: For example, shelf label holders and book supports as specified by architect or librarian.

FINISH: All material shall be thoroughly cleaned before painting, using a 3-stage phosphotizing system. All parts shall be finished in Alkyd-Urea type enamel, applied with an electrostatic process to insure an even, uniform coating, then baked on with the proper temperature-time relationship to insure thorough curing and a tough, durable finish. The finish color shall be selected by the owner from 11 color samples submitted by the manufacturer, or as designated by architect or owner.

OTHER AMES PRODUCTS

AMES STEEL LIBRARY EQUIPMENT

is extensively used in public libraries, schools, colleges, institutions, offices, and industrial libraries. Ames Free-standing Shelving provides convenient, economical book storage facilities adaptable to any library floor plan. Ames Stor-Mor Book Drawers permit the storage of up to twice as many books as regular shelving occupying the same amount of floor space. Ames also constructs Multi-

Tier Bookstacks, designed and erected to meet individual requirements. Locations of recent installations for reference purposes will be supplied upon request. Our experienced library equipment engineers will be happy to help you plan for the equipment which meets your particular needs.



Established 1910

W. R. AMES COMPANY

BOOKSTACK DIVISION

1001 DEMPSEY ROAD • MILPITAS, CALIFORNIA • REPRESENTATIVES IN PRINCIPAL CITIES

keeping pace with educational progress . . .



BECKLEY-CARDY grew up with the modern school to see the educational scene expand from a subject-centered 3R's program to the functional, enriched curriculum of today. Participation in the development of improved materials for the educational field has been the privilege of Beckley-Cardy for over fifty years.

**furnishing the nation's schools with
furniture • equipment • classroom supplies**

chalkboards
bulletin boards
classroom seating
office furniture
window shades
playground equipment
athletic materials
maintenance equipment

teaching materials
books • charts
visual education equipment
erasers • chalk
classroom supplies
art supplies
handicraft materials
office supplies

BECKLEY/CARDY

1920 no. narragansett ave. • chicago 39, illinois

modern design

in streamlined functional **CLASSROOM SEATING**

BECKLEY-CARDY manufactures a wide variety of seating to meet differing classroom needs and budget requirements.



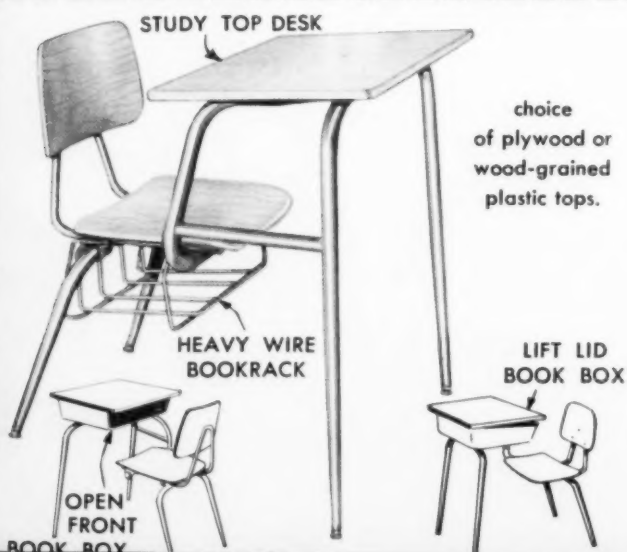
STERLING movable desks

Generous size and proportions, plus comfortable, correct posture swivel chair, reduce class tension and restlessness. Large book box with ample room for books and notebooks. 19"x25" top is of solid northern hard maple; and, when specified, surfaced with mar- and scratch-proof plastic laminate. Nylon bearing friction hinges prevent top from slamming. Heavy construction throughout. Sterling models available with one-piece steel book box, as illustrated, or wood bottom book box. Also with study top only for high schools and colleges. Adjustable models come in three sizes. Write for complete descriptions and prices.



SPACEMAKER desks

Make space for up to twelve more units per room. Raised side braces allow maintenance men to sweep floors easier, faster, cleaner. Generous book storage provided under seat. Electrically welded frame of die-formed steel. Completely rigid desk top adjusts upward and forward to fit varying size pupils. Solid maple top . . . and, when specified, furnished with mar-proof plastic surface. For increased comfort, seat and back rails conform to body contours. Desks and chairs in three sizes; tablet-arm chair has 17" seat height.



modernline **TUBULAR COMBINATION UNITS**

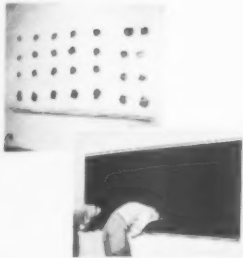
3 sizes in each of 3 styles (right or left hand models)

Modernline seating offers a cheerful informality that makes any classroom inviting. Each unit has been carefully styled for utmost compactness—allowing free leg movement. Comfortable, correct posture seats are easy to slide into and out again. The widespread, tapered legs stand firmly and have self-leveling, rubber-cushioned steel glides. All models offer generous book and writing space. Sizes suit elementary, junior and senior high and college classrooms. Modernline stacking chairs, teachers' desks, tables, etc., also available.

Styles and sizes for elementary, high school or college use.

SLATO·STEEL chalkboards

BECKLEY CARDY
1907 • 1958



easy to install

with adhesive cement and screws along top edge. No special wall construction is necessary. Choice of two types of anodized aluminum trim and chalk trough.



A permanent, non-absorbing vitreous material fused into a lightweight sheet of steel backed with hardboard, forming a light, tough, durable chalkboard. Guaranteed for the life of the building. Writing on Lite-

green surface is always sharp and distinct. Holds magnetized teaching objects, letters, etc. for "see and move" learning. Widths—3½ and 4 ft. Lengths—5, 6, 7½, 8 and 10 ft. Write for full details and prices.

ASBESTOS-CEMENT CHALKBOARDS



Cement, asbestos-fiber and ground slate are combined under enormous hydraulic pressure to form permanent, stone-like panels of great strength and durability. Beckley-Cardy machine-rubbed surface in choice of velvety black or Litegreen. Widths—3½ and 4 ft. Lengths—6, 7 and 8 ft.

Slatebestos ¼" thick; NuBestos 3/16" thick

OTHER QUALITY CHALKBOARDS



Choice of two types of backing material. **Slatoplate**, a laminated 5-ply pure spruce wood fiber board in widths of 3, 3½ and 4 ft. Lengths of 6 to 12 ft. Thickness, ¼". **Videoplate**, a hydraulically pressed hardboard in widths of 3½ and 4 ft. Lengths of 6 to 12 ft. Thicknesses of ¼" and ½". Both backing materials have famous Beckley-Cardy machine-rubbed surface in velvety black or Litegreen.

CORK BULLETIN BOARDS

to harmonize with modern interiors. Available in fine quality linen-finish cork or in good quality pebble finish cork. Holes close upon removal of pins or thumb tacks. 3 colors: cork tan, sage green, pueblo gray.

ALUMINUM CHALKBOARD MOLDINGS

easy to install—lightweight

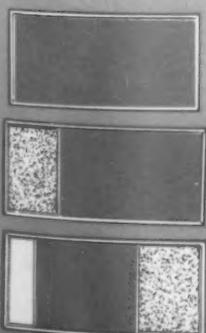
Complete parts include 3 styles of molding trims, two styles of chalk troughs and end closures, millions, joining strips, map and display rail with removable sliding hooks.



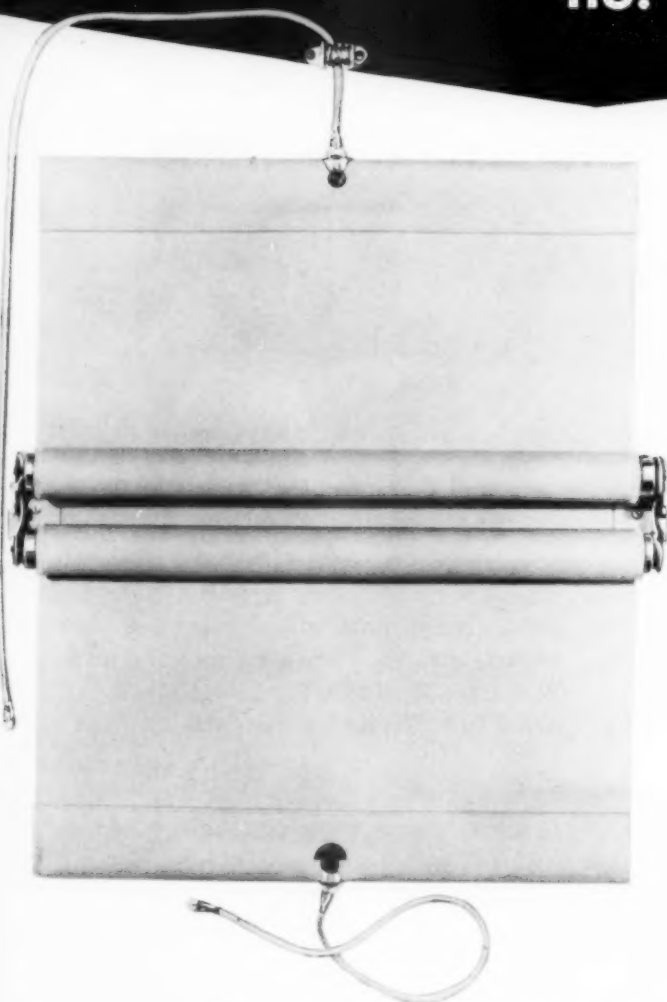
SIMPLEX custom built

chalkboards • bulletin boards • combination units

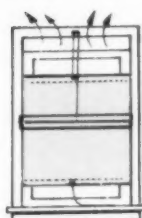
You plan any combination of chalkboard, corkboard or pegboard—we construct it to your specifications, complete with anodized aluminum trim and framed ready to hang on any ordinary wall. Can be re-located and re-hung for changing school conditions.



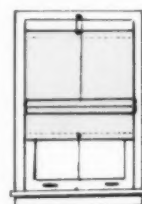
control classroom light with **SUPERTEX** window shades no. 105 SIGHTSAVER



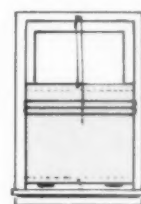
Admit abundant soft filtered light—yet shut out harmful glare with SUPERTEX special translucent weave in long staple cotton fiber. Fabric outwears ordinary shades three to one because it is thicker and more pliable—no filler is used to cause cracking or peeling. Cloth edges are stitched to prevent raveling. Hartshorn demountable rollers and oversize shade slats aid in giving superior durability. Non-demountable and single roller types also available at lower cost.



ventilation



high sun control



low sun control

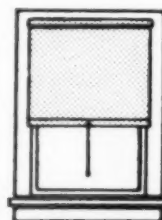
All state requirements for window light control are met with SUPERTEX sightsaver no. 105 double roller window shades in translucent fabric. Double roller shades adjust to control sunlight and ventilation. Fabric admits filtered light and air at all times.



LIGHT-PROOF SHADES for darkening rooms...

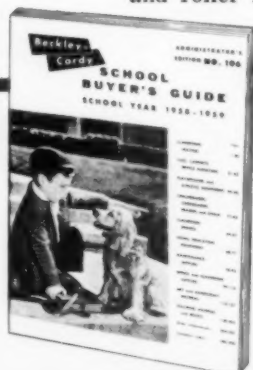
Quality Supertex fabric especially treated to offer 100% darkness. Flame-proof and fire resistant. Custom-designed when necessary to fit any unusual window or skylight. Single shades up to 71 inches by 12 feet. Multiple-shade units for extra wide windows. Light-proof side channels and roller housing available.

No. 300 SINGLE ROLLER SHADES



A lower priced, closely woven fabric that exceeds in strength U. S. specification CCC-C521A. Fire retarding, washable, long wearing, waterproof, sunproof shades available in neutral dark ecru tan. Also in black for absolute darkness when used with side channels.

WRITE FOR
No. 106
CATALOG



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BECKLEY-CARDY is the largest general school supply house in America—your assurance of a *complete* line of quality school merchandise readily available at all times. An extensive choice of styles and prices for each product is always as near as your Beckley-Cardy catalog.

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Brunswick

FLEXIBLE

MODUWALL





FOR TODAY'S EDUCATIONAL PROGRAM

LIVE-WALLS FOR ACTIVE LEARNING

“**W**hen the pupils are in their classroom, they will be engaged in a wide variety of activities—planning, discussing, sharing, using audio, visual and audio-visual aids, reading, arranging exhibits, writing letters and reports, constructing a puppet play, singing, computing the costs of a project, tracing a trip on a map, finding information for solving a problem, working out a creative drama, playing an indoor game.

“For some of these activities, all of the children of the room may be together (singing, playing games); for some, small groups of two to eight may work together (constructing, reading); for others, some children may work individually (finding information, writing a letter). Flexibility of equipment and plenty of space will be needed for these types of experiences. Movable bookshelves, art centers and tables will be desirable.

“Middle grade children of this school need plenty of space and flexible furniture and arrangements so that they may carry out the varied activities of their learning experiences. Both pupils and teachers need ample storage space and places for displaying visual aids and pupils' work.”

—“DESIGNING ELEMENTARY CLASSROOMS”
Special Publication No. 1
U. S. Office of Education

Live-walls ARE WALLS FOR ACTIVE LEARNING

Moduwall Live-walls solve a problem that has perplexed school administrators and teachers for years. Up to now the arrangement of everyday classroom equipment such as chalkboard, tackboard and shelving has been considered permanent and immobile. Every classroom has been alike regardless of the differing needs of the children and teachers from month to month and year to year.

Now Moduwall Live-walls make it possible to move equipment about to meet any classroom situation. The process is as simple as taking a picture off a hanger.

Live-wall chalkboard, tackboard and other

units are held firmly in place by a series of parallel standards equipped with precision metal holders. The Moduwall standards are permanently mounted on the classroom wall.

With Moduwall, classroom walls become alive and responsive to changing teaching needs. Classrooms are liberated from fixed-use patterns which until now have been determined by the character of their built-in equipment.

Moduwall Live-walls make classrooms better places for active learning. They also are economical—eliminating the waste of fixed equipment that cannot be moved when it is not needed by the current classroom program.

What will Live-walls do for my school?

Moduwall Live-walls give you flexibility and interchangeability for your wall-hung teaching equipment in each classroom.

Just what will Live-walls mean to my teachers?

Each teacher in your school can have the kind and amount of chalkboard, tackboard, bookshelving, and other wall equipment that her individual teaching program requires.

What will Live-walls mean to the children?

The right equipment at the right height for every class from kindergarten through high school.

What about changes in classroom use?

As classroom use changes, i.e., from second grade to sixth grade or from math to social studies, wall equipment can be quickly changed to serve the new teaching program.

What equipment is provided in the Moduwall Live-wall system?

Chalkboard	Tackboard	Pegboard	Easel
Bookshelf	Wall Cabinet	Utility Rail	Corkboard
	Flannelboard		

Can I have all these items in any combination I want?

Yes. You can select what you desire for the initial installation and obtain additional equipment later as needed.

How about Live-walls for modernizing my old classrooms?

Moduwall Live-walls enable you to give teachers and children in your older schools the latest in wall teaching equipment plus color, warmth and beauty.

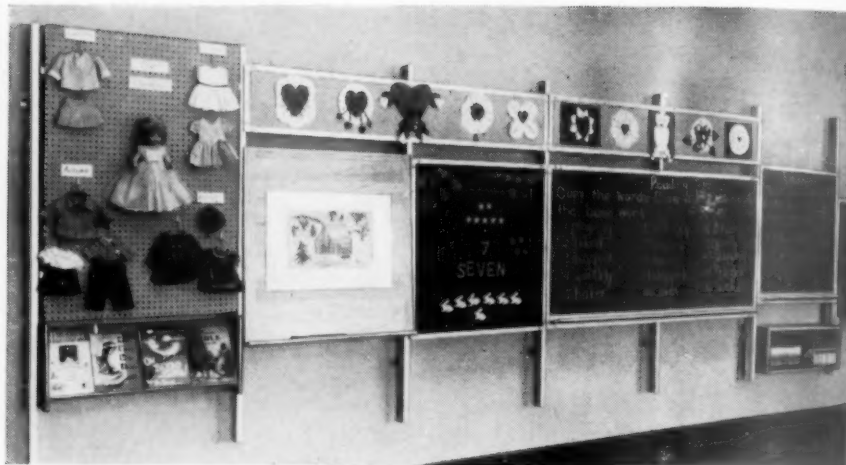
What about Live-walls in that new school we are planning?

With Moduwall Live-walls you will give your new school the best in wall-hung teaching equipment plus protection against obsolescence. Their flexibility will help keep your classrooms young thru all future changes in program.

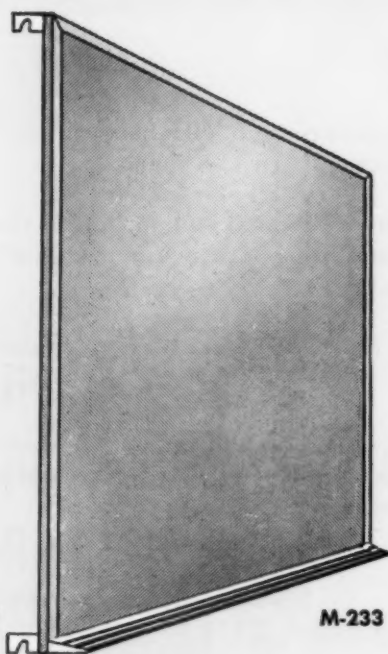
What will a Moduwall Live-wall installation cost me?

Little if any more than the installed cost of immovable equipment of comparable quality.

Moduwall installation in
Margaret Wills School,
Amarillo, Texas



MODUWALL LIVE-WALL EQUIPMENT UNITS

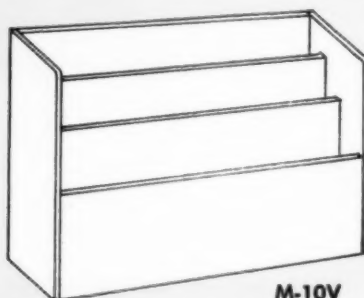


M-233

Brunswick Steel Chalkboard

A framed chalkboard constructed of high grade steel to assure the finest writing surface and erasure qualities. Takes chalk easily, wipes clean in seconds . . . and it's guaranteed for a lifetime. The Brunswick Steel Chalkboard meets high light reflectivity standards.

Sizes: M-233—3' x 3'
M-234—3' x 4'
M-263—6' x 3'
M-264—6' x 4'



M-10V

Magazine Rack, Vertical Type

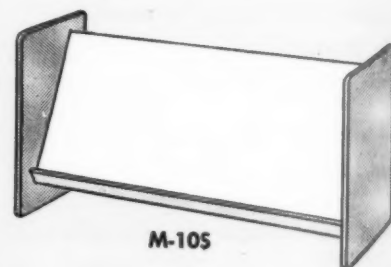
A practical 3-compartment display-storage area for books, magazines . . . even student's workbooks. Maple, Natural Finish.

Size: M-10V—34" x 7" x 14"

Magazine Rack, Slope Shelf Type

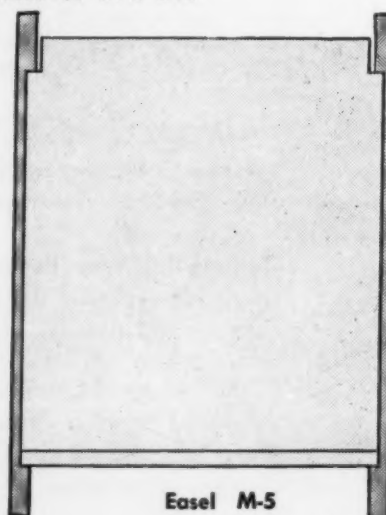
An ideal display area and support for planned chalkboard work. Maple, Natural finish.

Size: M-10S—34" x 7½" x 14"

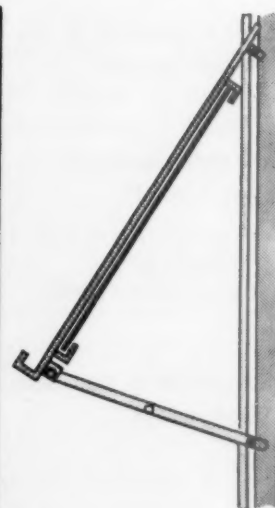


M-10S

Live-wall®

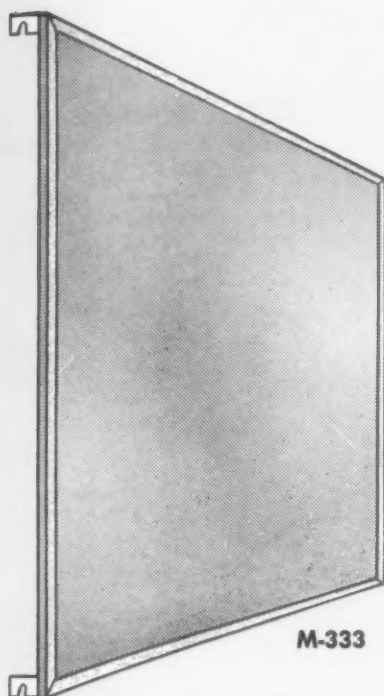


Easel M-5



A versatile easel that swings and locks easily into place at an ideal artist-work slope . . . and it hangs flat when not in use. Complete with point rack and backside flannelboard storage brackets.

Size: M-5—3' x 3'

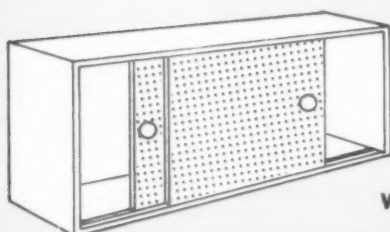


M-333

Corkboard

An ideal surface for students' work displays . . . a tackboard that bounces back. Constructed of high quality cork for easy insertion and removal of tacks, and to insure long, wear-resistant, use.

Sizes: M-331—3' x 1' M-361—6' x 1'
 M-333—3' x 3' M-363—6' x 3'
 M-334—3' x 4' M-364—6' x 4'

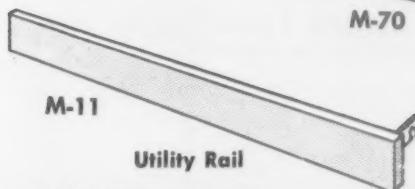


M-9P

Wall Cabinet

Doors permit dust-free storage of classroom supplies . . . chalk, flannel pieces, peg hooks, brushes, erasers, etc. Maple, Natural finish.

Size: M-9P—34" x 7½" x 12"

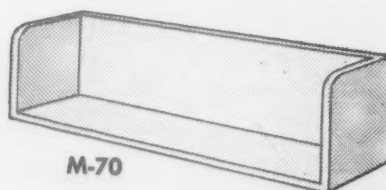


M-11

Utility Rail

A multipurpose map rail, flash card holder, or special small card line display. Maple, natural finish.

Size: M-11—36" x 4" x 1"

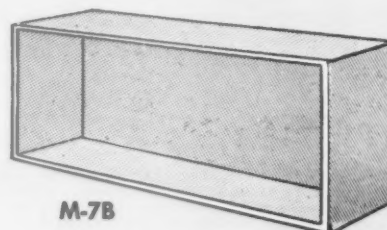


M-70

Open Type Book Shelf

Open top permits display or storage of large books or students' projects. Maple, natural finish.

Size: M-70—34" x 7½" x 9"



M-7B

Box Type Book Shelf

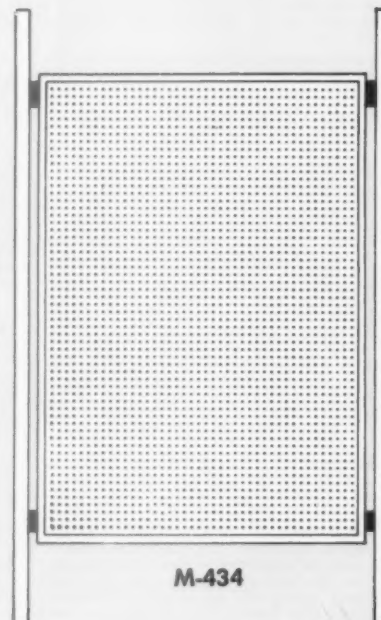
Covered storage-display area for books, project displays, teaching aids. Maple, natural finish.

Size: M-7B—34" x 7½" x 12"

Pegboard

The all-purpose visual display surface. Precisely drilled holes accept all standard hanging pieces for secure board display of virtually any type of material.

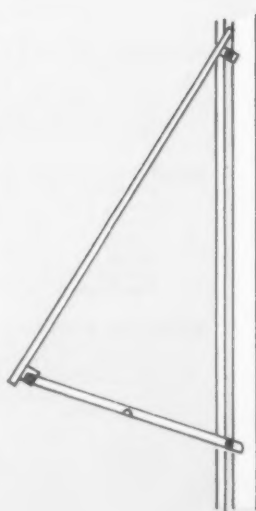
Size: M-434—3' x 4'



M-434

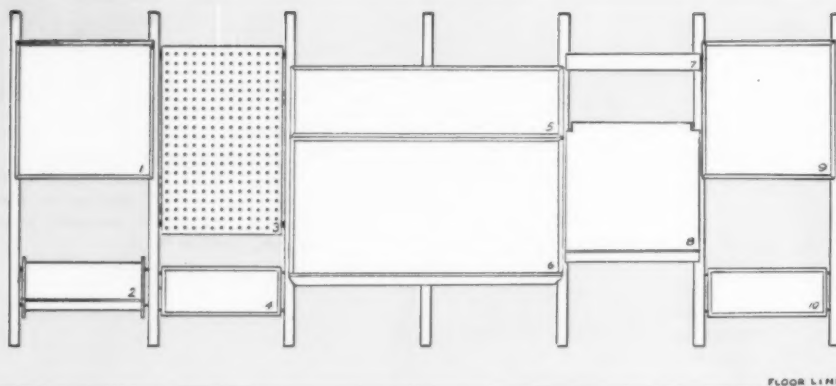


M-6S

**Easel Type Flannelboard**

Stores flat against Moduwall or adjusts out to artist slope for sit down planning of flannel displays.

Size: M-6S—3' x 3'



Typical 7-Standard Moduwall Installation: (Length 18'2")

- 1, 5, 9—Tackboards
- 2—Slope-Shelf Magazine Rack
- 3—Peg-Board
- 4, 10—Bookshelves
- 6—Chalkboard
- 7—Utility Rails
- 8—Easel

Specifications

BRUNSWICK MODUWALL GENERAL SPECIFICATIONS—Brunswick Moduwall shall consist of a series of components to be affixed to classroom and other walls within the school. These components shall consist of wall standards which shall be affixed to the walls and various components which may be attached to the wall standards. The components to be attached to the wall standards may include such items as steel chalkboard, tackboard, wall cabinets, magazine racks, and so on, as specified in further detail in Specification.

Wall standards shall be installed by.....
(state whether contractor, dealer, owner, etc.). Other components

shall be installed to wall standards by.....
(contractor, dealer, owner).

All Brunswick Moduwall units shall be furnished by the manufacturer with attachment hardware. The manufacturer shall supply such items as T-Plates to be used in the attachment of wall standards to wall surface as well as screw and nut assemblies for the fastening of wall standards to T-Plates. Manufacturer shall not provide bolts for attachment of T-Plates to the wall, since these bolts may be best obtained on the job site and to suit the wall construction.

All parts shall be manufactured to the highest degree of quality and specifications consistent with the product usage. All parts shall be guaranteed by the manufacturer for a full one year period from the date of installation, excepting the steel chalkboard writing surface which shall be guaranteed for life. The unconditional guarantee shall cover failures which occur during normal usage and shall not be construed to cover willful damage or misuse.

BRUNSWICK MODUWALL STEEL CHALKBOARD — Brunswick Steel Chalkboard shall be constructed of high grade steel surfaced to assure the finest writing surface and erasure qualities with all types and colors of chalk. The steel writing surface shall be firmly laminated under pressure to tempered hardboard, and shall be backed with aluminum material. The Chalkboard shall be framed with aluminum and be equipped with a permanently affixed full length chalk tray at the bottom. The Chalkboard shall be shipped fully assembled and ready for hanging on Moduwall standards. The surface color shall be Green. The Brunswick Steel Chalkboard writing surface shall be guaranteed for life by Brunswick. The surface abrasives used shall make it impossible for the writing surface to become slick or glossy with use.

BRUNSWICK MODUWALL TACKBOARD—Brunswick Tackboard shall be surfaced with a layer of natural cork securely laminated to tempered hardboard. Tackboard shall be framed in aluminum. The Tackboard unit shall be shipped fully assembled and ready for hanging on Moduwall standards. Brunswick Tackboard shall be available in six (6) sizes.

BRUNSWICK MODUWALL PEG-BOARD—The Brunswick Peg-Board shall be constructed of tempered hardboard. The Peg-Board shall be completely framed in aluminum. The Peg-Board unit shall be fully assembled and ready for hanging on Moduwall standards.

BRUNSWICK MODUWALL EASEL—The Brunswick Moduwall Easel shall be constructed of hardwood and shall be equipped with ladder brackets at the base. A full length paint tray shall be permanently attached at the bottom of the easel. Storage rails shall be mounted on the easel back for storage of a Flannelboard accessory unit in such a manner that Flannelboard accessory can be easily inserted for storage and removed for use on the easel paint tray. The easel shall be shipped fully assembled and ready for mounting on Moduwall standards.

BRUNSWICK FLANNELBOARD ACCESSORY—The Brunswick Moduwall Flannelboard Accessory shall be a portable aluminum framed flannelboard designed for storage behind the standard Easel by means of

special supporting rails. The Flannelboard Accessory shall be constructed of black flannel securely bonded to thick tempered hardboard. The surface shall be smooth and wrinkle free. The unit shall be shipped fully assembled and ready for hanging on Moduwall standards.

BRUNSWICK MODUWALL FLANNELBOARD—The Brunswick-Moduwall Flannelboard shall be constructed of high tempered hardboard to which black flannel has been laminated to provide a smooth wrinkle free surface, framed with aluminum. The Flannelboard shall be equipped with permanent mounting fixtures at the top and two ladder brackets at the bottom to permit easel type slope as well as vertical use. The unit shall be shipped fully assembled ready for mounting on Moduwall standards.

BRUNSWICK BOOKSHELF—BOX TYPE — The Brunswick Moduwall Box Type Bookshelf shall be constructed of 1" hard northern selected maple stock equipped with plywood back panel. The Bookshelf shall be finished in clear hard finish lacquer. The unit shall be shipped fully assembled and ready for mounting on Moduwall standards.

BRUNSWICK BOOKSHELF—OPEN TYPE — The Brunswick Moduwall Open Type Bookshelf shall be constructed of 1" hard northern selected maple stock equipped with plywood back panel and finished with clear hard finish lacquer. The unit shall be shipped fully assembled and ready for mounting on Moduwall standards.

BRUNSWICK WALL CABINET — The Brunswick Moduwall Wall Cabinet shall be constructed of 1" hard northern selected maple stock and equipped with a plywood back panel. The wall cabinet shall be finished with clear hard finish lacquer, and shall be fitted with tempered hardwood perforated doors. The unit shall be shipped fully assembled and ready for mounting on Moduwall standards.

BRUNSWICK MAGAZINE RACK—SLOPE SHELF TYPE — The Brunswick Slope Shelf Magazine Rack shall be constructed of 1" hard northern selected maple stock finished with clear hard finish lacquer. The rack shall have a 12" sloping shelf for material display. The unit shall be shipped fully assembled and ready for mounting on Moduwall standards.

BRUNSWICK MAGAZINE RACK—VERTICAL TYPE — The Brunswick Vertical Magazine Rack is constructed of 1" hard northern selected maple stock. It shall be equipped with vertical dividers constructed of 1/4" maple plywood. Each of the three (3) magazine compartments shall be two (2") inches in depth. The unit shall be finished in clear hard finish lacquer. The unit shall be shipped fully assembled and ready for mounting on Moduwall standards.

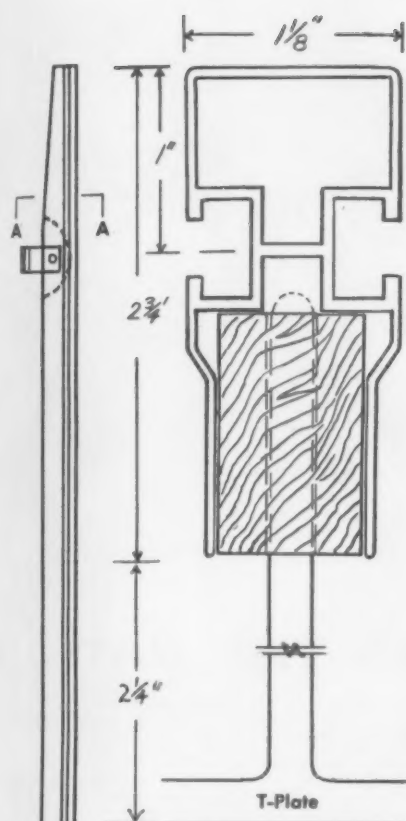
BRUNSWICK UTILITY RAIL — The Brunswick Utility Rail shall be constructed of 1" hard northern selected maple stock with a routed poster slot and map slot at the top, 3/4" deep and 1/8" wide. The utility rail shall be finished with clear hard finish lacquer. This unit shall be shipped fully assembled and ready for mounting on Moduwall standards.

BRUNSWICK MODUWALL ALUMINUM WALL STANDARD — The Brunswick Moduwall Aluminum Wall Standard (L-2) shall be constructed of heavy structural extruded aluminum. The Wall Standard shall be furnished complete with T-Plates and necessary hardware for the attachment of the Wall Standard to the T-Plates. T-Plates shall be bolted to the wall. The Wall Standard shall be designed with channel-track to accommodate equipment attachment hardware. The Brunswick Wall Standard shall measure six feet in length.

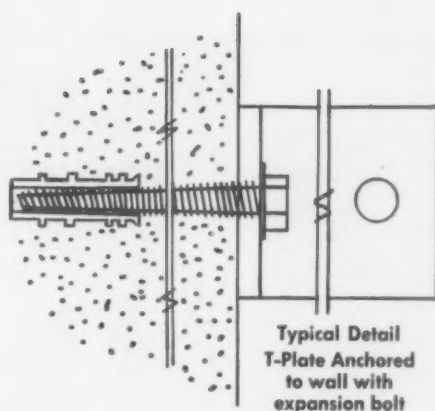
BRUNSWICK MODUWALL WOOD ALUMINUM STANDARD — The Brunswick Wood Aluminum Wall Standard shall be constructed of select, northern, hardwood, white maple finished with clear lacquer. The Wood Aluminum Standard shall be fitted with a heavy structural aluminum channel-track to accommodate equipment attachment hardware.

Detail of MODUWALL LIVE-WALL EQUIPMENT

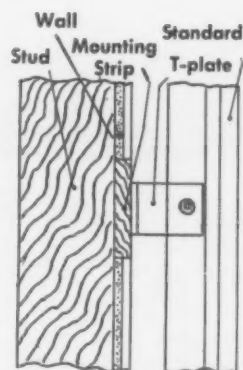
Standards and Attachment Means



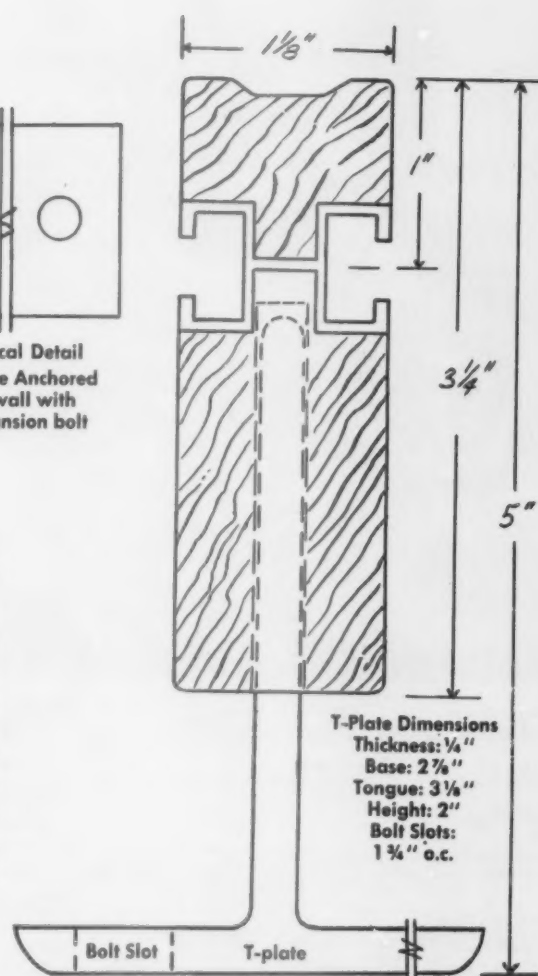
Section A-A (Aluminum)
Aluminum Standard
Cross Section
Full Scale



Typical Detail
T-Plate Anchored
to wall with
expansion bolt

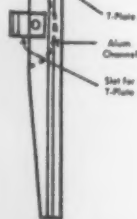


Typical Detail
T-Plate Anchored
to Wood Stud



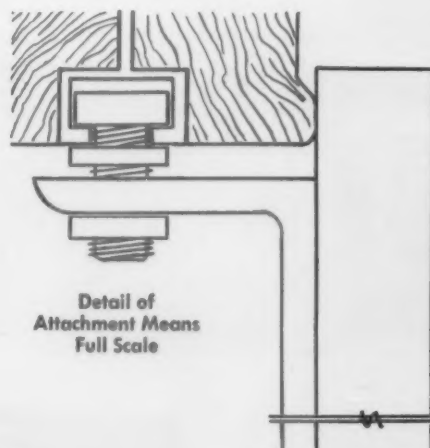
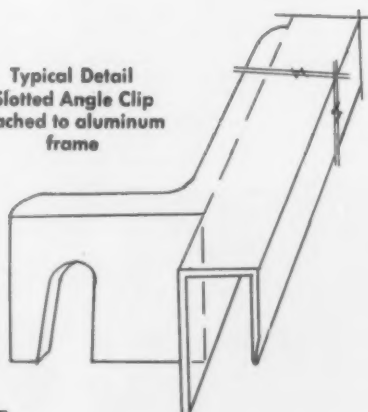
Section A-A (Wood)
Wood Standard
Cross Section
Full Scale

T-Plate Dimensions
Thickness: 1/4"
Base: 2 1/2"
Tongue: 3 1/2"
Height: 2"
Bolt Slots:
1 1/4" o.c.



Live-wall
Standard
L-1 Wood
L-2 Alum.

Typical Detail
Slotted Angle Clip
attached to aluminum
frame



Detail of
Attachment Means
Full Scale

Moduwall



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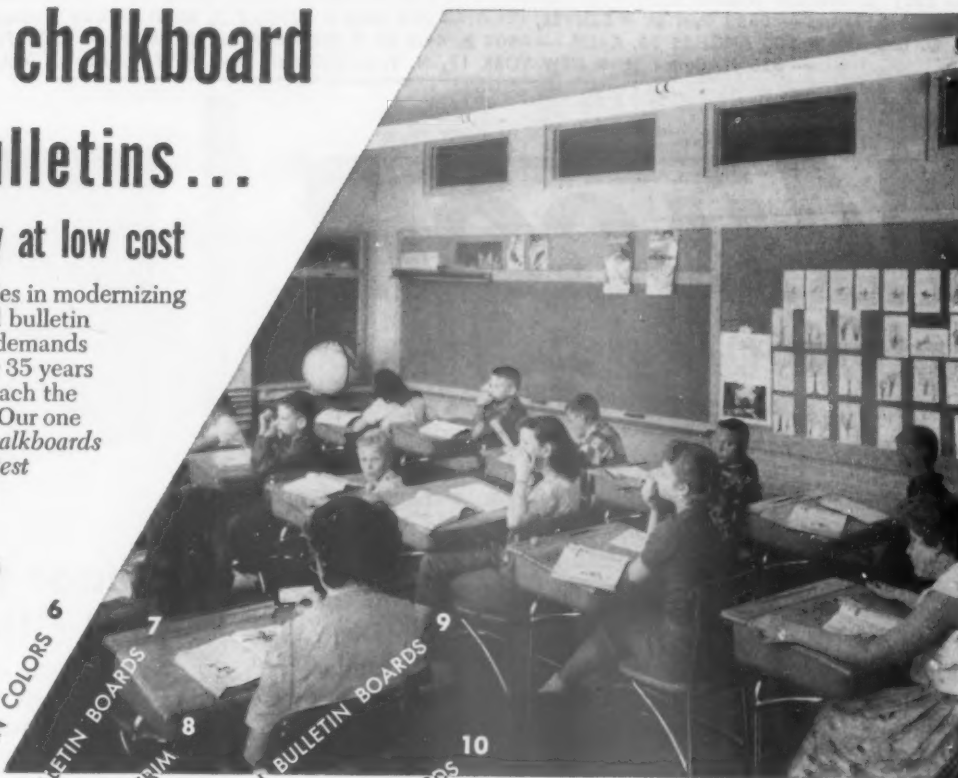
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Harrison, Arkansas

Claridge chalkboard and Cork Bulletins...

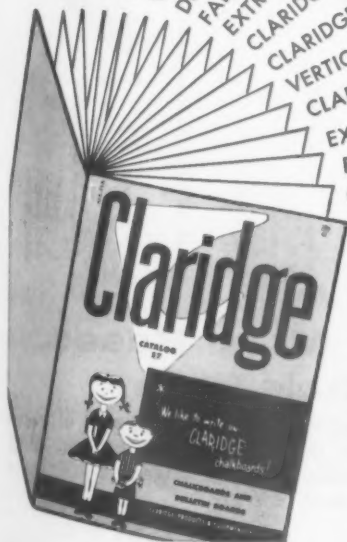
Quality . . . Permanency at low cost

CLARIDGE has made great strides in modernizing and improving chalkboard and bulletin boards to keep pace with the demands of present day education. Over 35 years experience enables us to approach the problem on a know-how basis. Our one ultimate purpose: *the finest chalkboards and bulletin boards with greatest educational value.* Thousands of schools the world over, and many leading architects use CLARIDGE as their standard of quality.



- 1 DURACITE CHALKBOARDS in SEVEN COLORS
- 2 GRAPHOLITE CHALKBOARDS
- 3 ASBESTOCITE CHALKBOARDS
- 4 HORIZONTAL SLIDING CHALKBOARDS
- 5 VITRACITE PORCELAIN ENAMEL CHALKBOARDS
- 6 DURASTEEL CHALKBOARDS in SEVEN COLORS
- 7 FABRICORK PLASTIC SURFACE BULLETIN BOARDS
- 8 EXTRUDED ALUMINUM CHALKBOARD TRIM
- 9 CLARIDGE FACTORY BUILT CHALKBOARDS and BULLETIN BOARDS
- 10 VERTICAL SLIDING CHALKBOARDS
- 11 CLARIDGE WASHABLE CHALKBOARDS and BULLETIN BOARDS
- 12 EXTRUDED ALUMINUM DISPLAY and TROPHY CASES
- 13 CLARIDGE REVERSIBLE CHALKBOARDS and BULLETIN BOARDS
- 14 EXTRUDED ALUMINUM BULLETIN BOARDS
- 15 CLARIDGE SWING LEAF DISPLAY BOARDS

If you've a chalkboard
or bulletin board **PROBLEM**
. . . for new building or
replacement or remodeling . . .
send for Catalog 758.
It contains a vast amount of
information which can help
you solve your problem.



Stafford Intermediate School, Stafford, Kansas
Architects: Hibbs, Robinson and Petit, Wichita, Kansas



AMERICAN SCHOOL AND UNIVERSITY—1958-59

INLAND STEEL PRODUCTS COMPANY

4105 W. Burnham Street, Milwaukee 1, Wisconsin

ATLANTA 3, GA. — 83 Cain St., N. E. • BALTIMORE 5, MD. — 5300 Pulaski Highway • BUFFALO 11, N. Y. — 64 Rapin St. • CHICAGO 9, ILL. — 4301 S. Western Avenue Blvd. • CINCINNATI 25, OHIO — 3240 Spring Grove Ave. • CLEVELAND 14, OHIO — 1541 E. 38th St. • DALLAS 6, TEXAS — 5523 Dyer St. • DENVER, COLO. — 245 Holly • DETROIT 2, MICH. — 690 Amsterdam Ave. • KANSAS CITY 41, MO. — P. O. Box 918 • LOS ANGELES 58, CALIF. — 4807 E. 49th St. • MINNEAPOLIS 2, MINN. — 1308 Foshay Tower • NEW ORLEANS 19, LA. — 325 N. Cortez St. • NEW YORK 17, N. Y. — 230 Park Ave. • ST. LOUIS 10, MO. — 4215 Clayton Ave.

MILCOR[®]

Interior Metal Trim

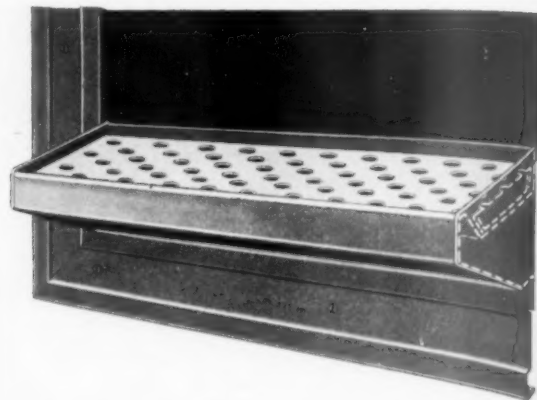
Permanent • Firesafe • Sanitary

Economical • Easy to clean and maintain

A complete selection of window trim, stools, mouldings, and bases in practical designs, sizes, and weights to meet varying needs and preferences. Two basic types: (1) flush, or plastered-in; (2) applied, or removable.

Milcor Sound-Deadening Insulmat

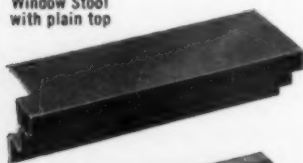
Fire-resistant composition insulates metal trim against the transmission of sound vibrations. Applied to all styles of Milcor Metal Trim at slight additional cost. Regularly furnished on Milcor Chalk Trough at no extra cost.



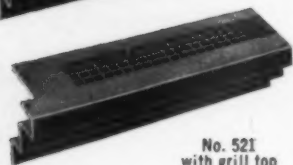
Milcor Chalk Trough and Blackboard Trim

Various styles of moulds, chalk troughs, and chalk-trough inserts for virtually any blackboard or corkboard installation. All chalk trough furnished with sound-deadening Insulmat backing.

No. 521
Window Stool
with plain top



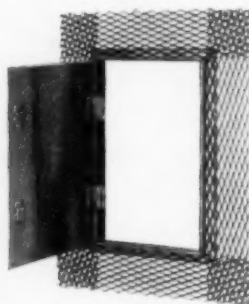
No. 521
with grill top



Milcor Window Trim and Stools

Complete frames or three-quarter assemblies for any size opening. Square, projecting, and radius stools — standard or expanded flanges. Trim and stools are cut to exact length and end or corner fittings welded to stools at the factory.

Style "K"
for plaster



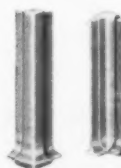
Milcor Metal Access Doors

Four types — for plaster and non-plaster construction, and for acoustical tile. Ready to install. Made of heavy-gauge steel — can't warp, crack, shrink, swell, rot, or burn. Sizes from 8" x 8" to 24" x 36". Special sizes available to specifications.

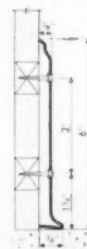
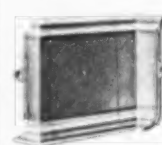
No. 605
Metal Base



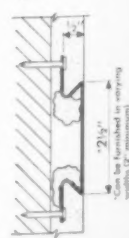
Friction-Fit Fittings
Outside and Inside
Corners Square
or 3/4 inch Radius



No. 644
Metal Base with
square inside and
outside corners



No. 751
Chair Rail



Milcor Metal Bases, Chair Rails

Complete line includes plastered-in and clip-on bases, chair rails, picture moulds, stop and fillet moulds, cove moulds. Corner fittings and terminals to match. Prime-coat painted.

Write to Milwaukee for Catalog 102.

PENNSYLVANIA SLATE PRODUCERS GUILD, INC.

Pen Argyl National Bank Building, Pen Argyl, Pennsylvania

A trade association sponsored by the makers of "Pyramid" and "Keystone American" brands of certified natural slate chalkboards.

SLATE CHALKBOARDS



Blooming Prairie Junior-Senior High School
Arch: Haastick Lundgren & Assoc., Inc., St. Paul, Minnesota
Photo: Clark Dean, Infinity, Inc., Minneapolis, Minn.



Springfield Senior High School, Springfield Township, Pa.
Arch: Howell Lewis Shay & Assoc., Philadelphia, Pa.
Photo: Lawrence S. Williams, Upper Darby, Pa.

OUTSTANDING EXAMPLES OF SUFFICIENT LIGHTING . . . SELECTIVE COLOR DECORATION AND SLATE CHALKBOARDS . . . TO PROVIDE A TRULY SATISFYING AND COMFORTABLE VISUAL ENVIRONMENT



simplified specifications

1. *Material:* natural slate.
2. *Quality and Finish:* Finest quality selected natural slate, quarried in Pennsylvania, U.S.A., even in color and texture, free from ribbons or imperfections that would impair its use or durability as a marking surface. If proof of domestic origin is not available, a certified report must be supplied to prove that the slate supplied has the required hardness, proved service life, low calcite content, freedom from bleaching when in use, and acid resistance equivalent to that of domestic slate of chalkboard quality.
3. *Sizes:* Chalkboard spaces shall be of the lengths and heights shown on drawings. Modular stock heights are 3' 0", 3' 6", and 4' 0". The contractor shall supply individual boards approximately equal in length in order that the joints be symmetrically spaced. An allowance of $\frac{1}{4}$ " clearance all around shall be made at trim. Thicknesses shall be maintained between the limits $\frac{1}{4}$ "- $\frac{3}{8}$ ".
4. *Installation:* Chalkboards shall be installed as shown on drawings using manufacturer's recommended installation directions. Joints shall be fitted to provide a continuous writing surface.

SPECIFY SLATE, TOO, FOR:

Sills, Treads and Risers, Shower Stalls, Toilet Enclosures, Spandrels, Coping, Patios and Walks, Window Sills, Lab Sinks, Tops, etc.

Write for free copies of literature on slate . . . today

BUFFALO PRODUCTS CO.

Main Office: P.O. Box 48, Murray Hill Station, New York 16, N. Y.

SALES OFFICE

WASHINGTON 4, D. C.

BIRMINGHAM 4, ALA.



KIFS FOR BONDING PLASTER TO CONCRETE PERMANENTLY

TRADEMARK REGISTERED

Specifications for the use of "KIFS"

KEYING CONCRETE FOR PLASTER — Surfaces of concrete to be plastered are to be provided with undercut key niches formed in the concrete. Niches shall be circular in shape and shall be approximately 2" in diameter at the bottom edge of the niche and approximately 1 5/8" in diameter at the opening. In section, the edge of the concrete opening shall be well rounded or squared off to prevent fracture and further strengthened with concrete ribs within the niche. The extreme depth of the niche shall be approximately 3/8" from the face of the concrete.

Niches may be provided as above by use of "KIFS" as manufactured by Buffalo Products, Inc., P.O. Box 48, New York 16, N.Y.

SPACINGS — On horizontal surfaces, spacing of niches will be not more than 6" on centers in two directions and on vertical surfaces not more than 8" on centers in two directions. End rows of niches will be spaced not more than 3" from the center line of the niches to the edge of the ceiling, walls, beams or columns.

APPLICATION OF "KIFS" TO WOOD FORMS — "KIFS" are to be nailed to the surface of the form boards by means of a standard galvanized roofing nail having a head 3/8" in diameter.

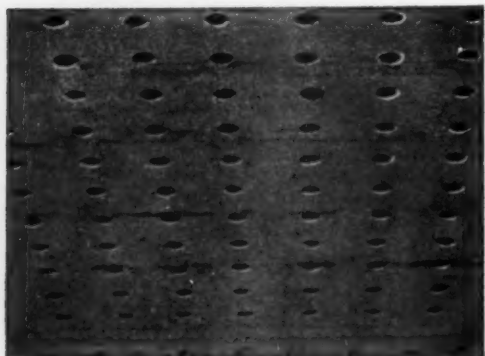
Upon withdrawal of the form boards from the concrete, the "KIFS" collapse without appreciable resistance, leaving the clean-cut unfractured undercut niche in the concrete. The "KIFS" remain attached to the form boards ready for subsequent form shifts without further preparation.



1. "KIFS" are nailed six inches on centers in both directions on the concrete form boards. Then the concrete is poured.



2. After the concrete has hardened, the removal of forms pulls the elastic "KIFS" out of the concrete, leaving clean, undercut niches.



3. The kified ceiling is now ready for plastering. When the plaster is applied, it squeezes into the undercut niches and forms a permanent, lathless, mechanical bond between concrete and plaster.

ECONOMICAL, EFFICIENT AND SIMPLE TO USE

POURING CONCRETE

Concrete will be poured in the usual manner. "KIFS" are so designed that concrete will flow fully around the "KIFS" without special rodding or vibrating.

WATERPROOFING CONCRETE WALLS

Concrete walls to receive waterproofing plaster (Ironite, etc.) will be provided with key niches spaced not more than 6" on centers in two directions.

TUNNEL CONSTRUCTION

In tunnel construction "KIFS" are used with steel forms by using sheet metal screws. It is recommended that "KIFS" be spaced 8" on centers in two directions in this application.

SWIMMING POOL CONSTRUCTION

In swimming pool construction where it is intended to apply ceramic tile direct to the cement, "KIFS" provide a far superior key

than the method of using rough lumber for forms or scratching the surface after pouring.

ANCHORS FOR MASONRY, ETC.

Specially designed corrugated or perforated metal anchors will be available from the Buffalo Products, Inc. for anchoring brickwork, marble, slate, terra cotta, etc. to concrete walls and spandrels. These galvanized stamped metal anchors are provided with horns which will bend into position to engage the undercut surfaces of the niche. After insertion of the anchor, the horns are straightened by hand and the niche is filled with mortar. The mortar prevents rebending of the horns and the anchor is made positive and permanent.

PER SQUARE FOOT:

Spacing	No. Per Sq. Ft.
4" on center 2 ways.....	9
6" on center 2 ways.....	4
8" on center 2 ways.....	2 1/4

Write for complete 8-page "Catalogue"

U. S. PATENT NO. 2,514,911
CANADIAN PATENT PENDING

CUSTOM

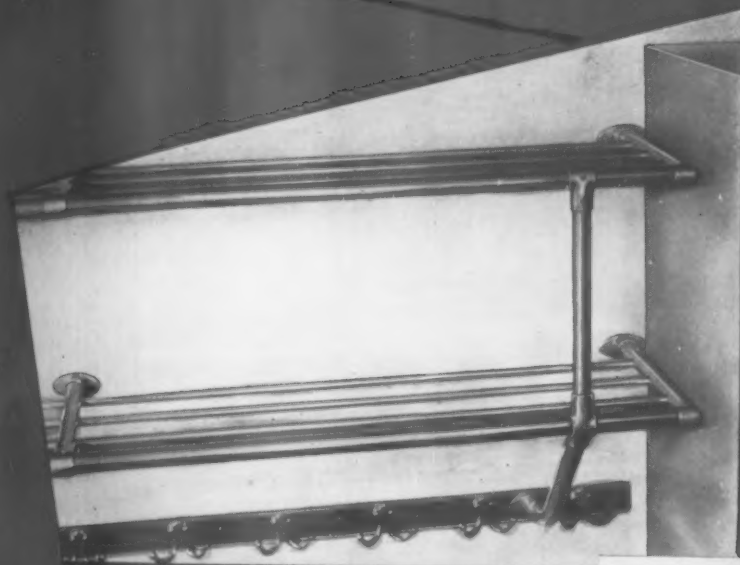
BUILT

ARNCO

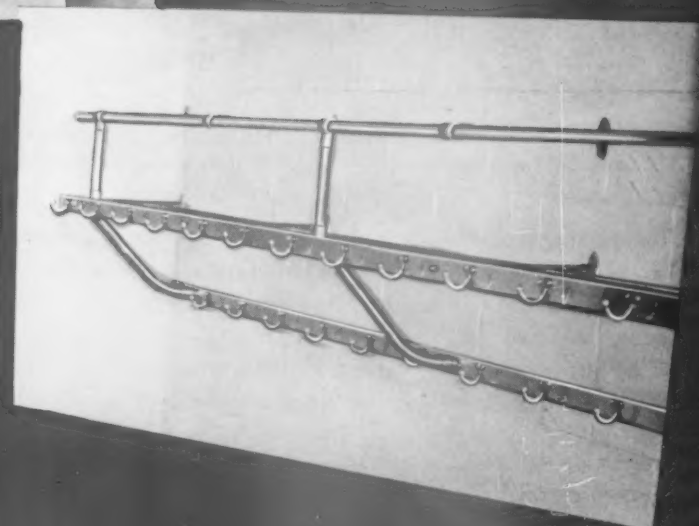
ALUMINUM

COAT and HAT RACKS

non-peeling alumilite finish



DOUBLE SHELF COAT AND HAT RACK
STYLE #102



DOUBLE SHELF COAT AND
HAT RACK WITH ADDITIONAL
HOOK STRIP STYLE #103

ARNCO

The above styles are widely used in elementary school classrooms

A. R. NELSON CO., INC. 38-35 CRESCENT ST., LONG ISLAND CITY 1, N. Y.

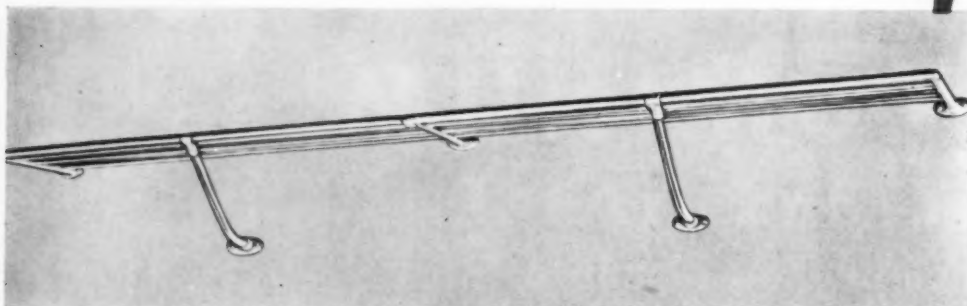
No. Per
Sq. Ft.
...9
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ologue
2, 614, 316
PENDING

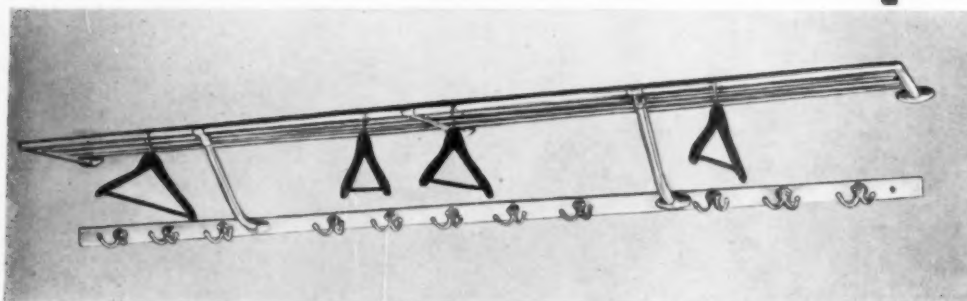
ARNCO

COAT and HAT RACKS

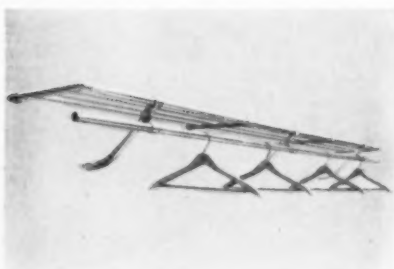
alumilited aluminum
FOR SCHOOLS, HOSPITALS, INSTITUTIONS



UTILITY SHELF STYLE #100



SINGLE SHELF COAT AND HAT RACK STYLE #101



ADDITIONAL COAT ROD FOR
STYLES No. 100, 101 and 102



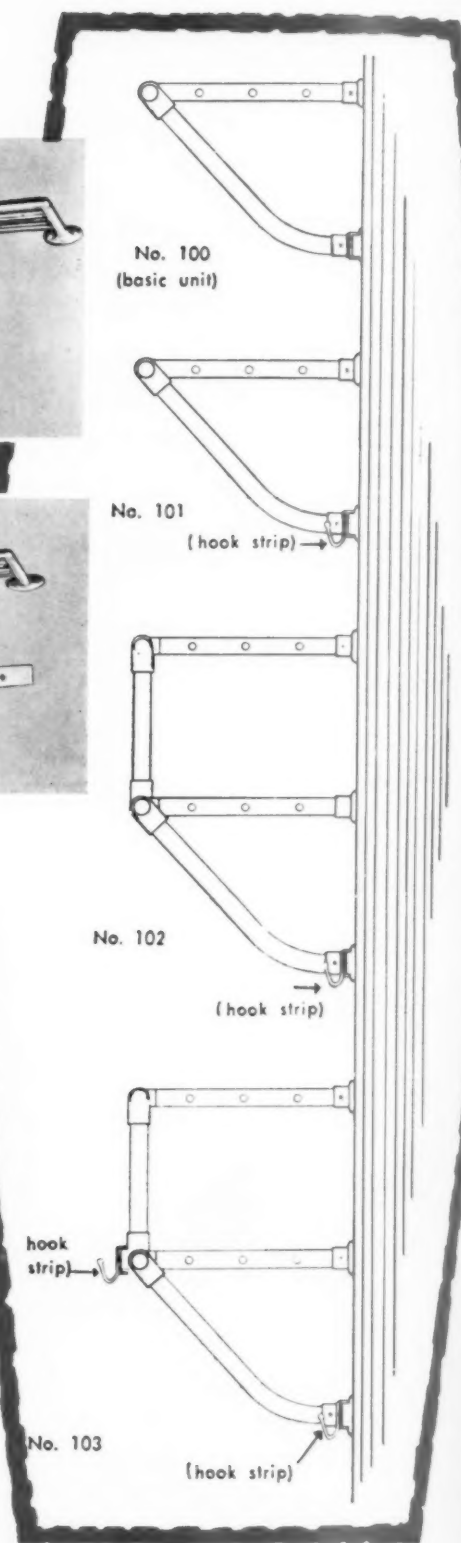
STYLE No. 101 ADAPTED FOR
HOTEL BATHROOMS. LENGTH 24"

The aluminum shelf, coat and hat racks are smartly designed, not only light, strong and rigid, but include sanitary self ventilating features with beauty. Styles No. 101 and No. 102 are equipped with double-prong hooks 6" on center. Style No. 103 has single prong hooks 9" on center staggered. An additional coat rod for Styles No. 100, 101 and 102 can be applied when required.

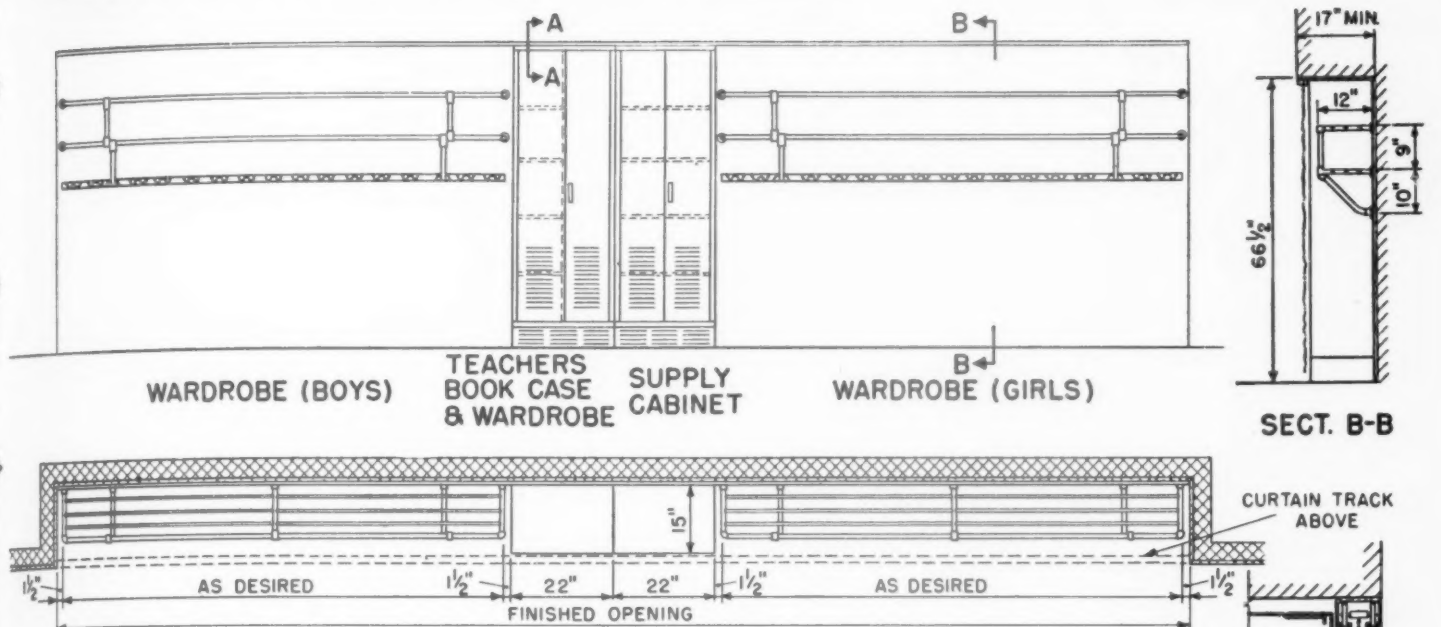
Shelves up to 6'0" long furnished with two brackets. Over 6'0" three or more brackets are supplied. Shelves are shipped assembled. Hooks are applied to strips. All fittings drop forged aluminum. The finish of the entire assembly is alumilited and will not darken or peel. Coat hangers are not furnished.

ANY DESIRED LENGTH UP TO 16 FEET

SHELVES ON STYLE No. 102 AND No. 103 ARE SPACED 9" ON CENTER. WHERE SHELVES ARE REQUIRED TO FIT INTO PREPARED RECESSES OR BETWEEN WALLS, ALLOW 1-1/2" AT EACH END FOR FLANGES.



CURTAIN CLASSROOM WARDROBES



ARCO WARDROBES

Arco curtain classroom wardrobes offer economical yet efficient wardrobe equipment. Both arrangement and capacity are entirely flexible. Aluminum shelves and hook strips may be divided as shown, for boys on one side, girls on the other, or continuous with cabinets located at

general • Wardrobes shall be Arco curtain classroom wardrobes installed by contractor in recesses as shown on plans. Wardrobes to consist of aluminum coat and hat racks, steel supply cabinet, combination teacher's cabinet, aluminum track with carriers and vinyl coated fiberglass curtains.

coat and hat racks • To be constructed of 1" O.D. x .065 aluminum tubing frame, with forged aluminum fittings, 1/2" O.D. x .065 intermediate stringers, and 1 1/2" x 1/2" x 1/4" extruded aluminum channel hook strip having double-prong hooks applied 6" on center.

teacher's closet • Cabinet to consist of 16 ga. door and frame, with three-point locking device and flat key lock; assembled to a 24 ga. body by means of slotless head bolts. Bottom of doors and base to have louvers; backs to be perforated. Cabinet to have center divider, one compartment having wall and ceiling hooks, the other four adjustable shelves.

supply cabinets • To be as described above except to have one full width compartment with four adjustable shelves.

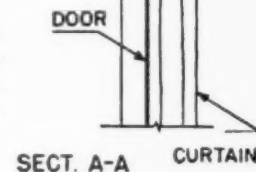
track • To be specially designed extruded aluminum with raceways for two-wheel carriers.

curtains • To be vinyl coated fiberglass, flameproof, mildew proof, color fast, with rustproof grommets approximately 6" on center starting 2" from each end to provide overlap at meeting point. Color of curtains to be standard pastel shade as selected.

carriers • To consist of specially designed nylon axle and "non-contact" rollers, bead chain and hook; and to operate freely without drag or locking.

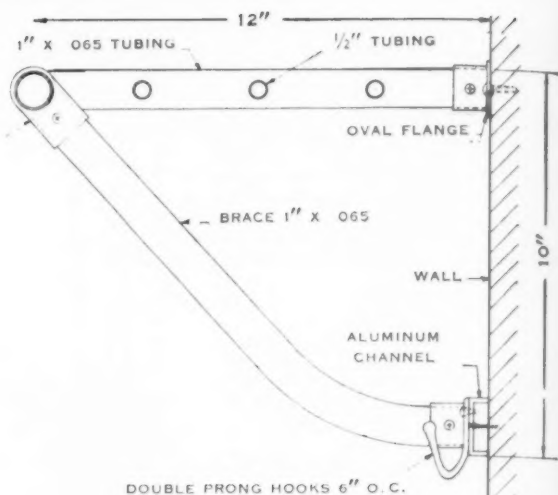
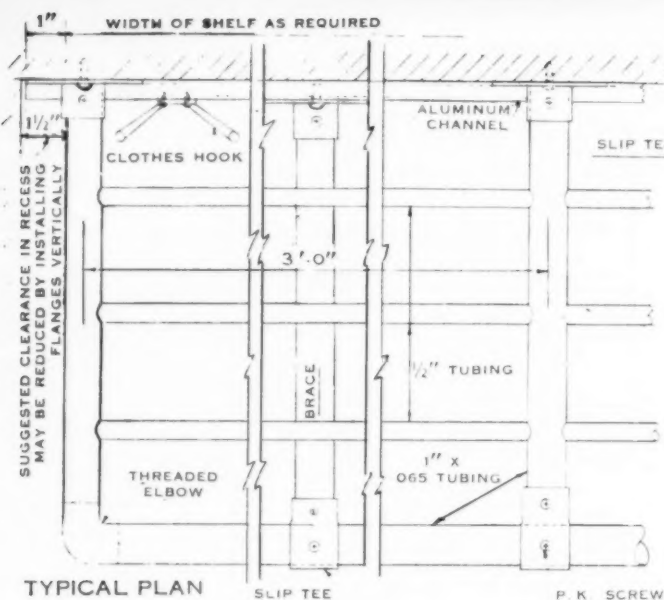
finish • All aluminum parts to be aluminized to provide permanent finish. Steel cabinets to have baked enamel finish in standard color as selected.

ends. Cabinets may be eliminated if desired. Track and curtains are optional but provide an attractive, flame-proof means of screening clothing. Curtains are 4" from floor to provide necessary ventilation.

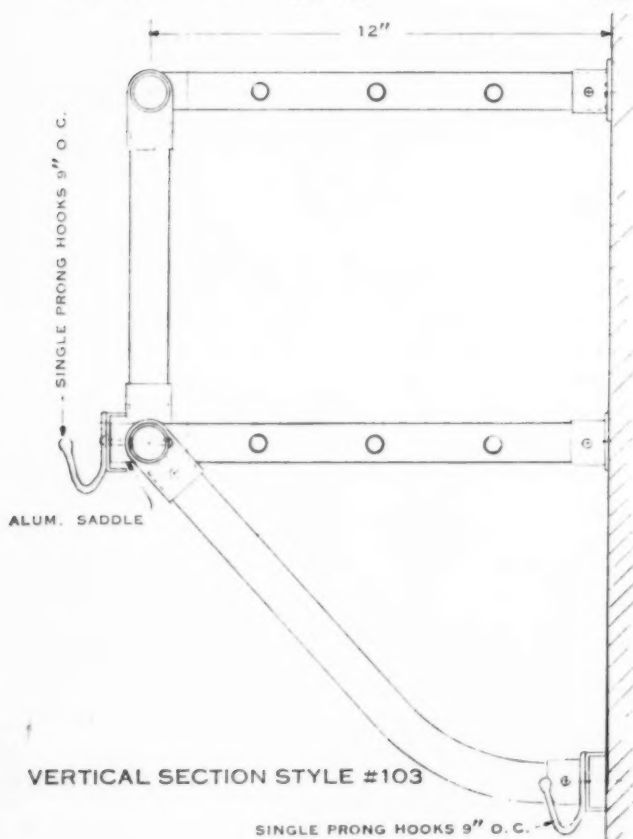


Curtain wardrobe showing optional overshoe rack, inverted style #100 with horizontal braces not more than 2 feet on centers. Coat rod arrangement shown, designed to meet special requirement for coat hangers.

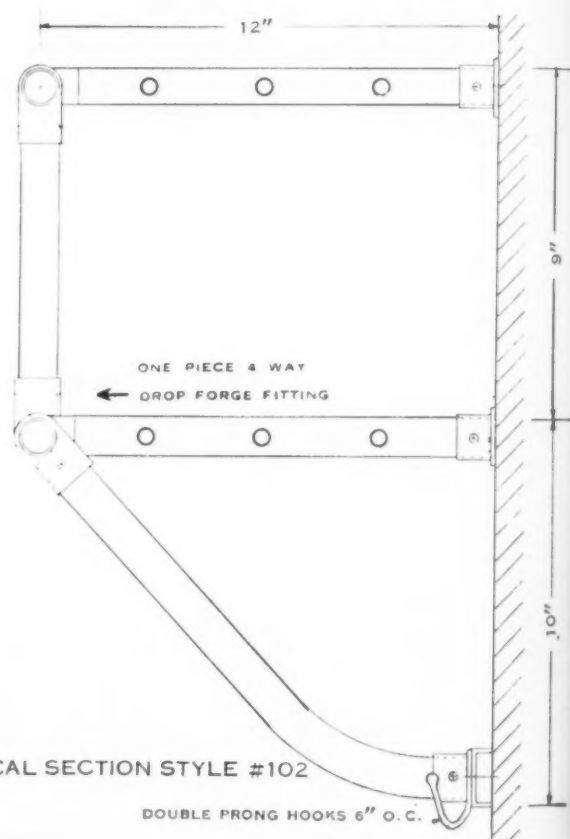
CONSTRUCTION DETAILS OF ALUMINUM COAT & HAT RACKS



VERTICAL SECTION STYLE #101



VERTICAL SECTION STYLE #103



VERTICAL SECTION STYLE #102

SPECIFICATIONS

Coat and Hat Racks to be Arnco Style # _____ as manufactured by A. R. Nelson Co., Inc., constructed of 1" O.D. x .065 aluminum tubing frame, with forged aluminum fittings, 1/2" O.D. x .058 intermediate stringers, and 1/2" x 1-1/2" x 1/2"

x 1/8" extruded aluminum channel hook strip having double-prong Tenzaloy hooks applied 6" on center. (Single-prong 9" on center staggered on style #103). Optional coat rod for styles #100, 101 and 102. Non-peeling aluminite finish.

ERECTION

Installation is simple and accomplished with ordinary tools. Apply wall flanges with 1/4" toggle bolts or rawl plugs and wood screws,

depending on wall construction. Insert tubular parts and secure with Philips head screws (furnished) using #31 drill.

A. R. NELSON CO., INC. 38-35 CRESCENT ST., LONG ISLAND CITY 1, N. Y.



Chalkrobes® *Corkrobes®* *Wallmounts**

U. S. Pat.
Applied for
• VOGEL-PETERSON
TRADE MARK

Wardrobe side with
Coat Hangers

Wardrobe
side with
Coat Hooks

*This is a
Chalkrobe
Chalkboard Wardrobe*

Board side

Chalkrobe®

The CHALKROBE provides two adjustable height 4 ft. hat shelves, one 4 ft. shoe shelf, and two 4 ft. coat rails, to hold spaced coat hangers and/or coat hooks, and a 50" x 48" chalkboard complete with tray, in one movable floor stand unit.

Corkrobe®

The CORKROBE provides two adjustable height 4 ft. hat shelves, one 4 ft. overshoe shelf, two 4 ft. coat rails to hold coat hooks and/or coat hangers, and a 50" x 48" corkboard.



REDUCE SPACE REQUIREMENTS
REDUCE BUILDING COSTS
REDUCE EQUIPMENT COSTS
PROVIDE MOVABLE-SCREEN
CHALK OR CORK BOARD

The Wardrobe System that provides **Low Cost Flexibility**

Schooline Wardrobes are versatile because—

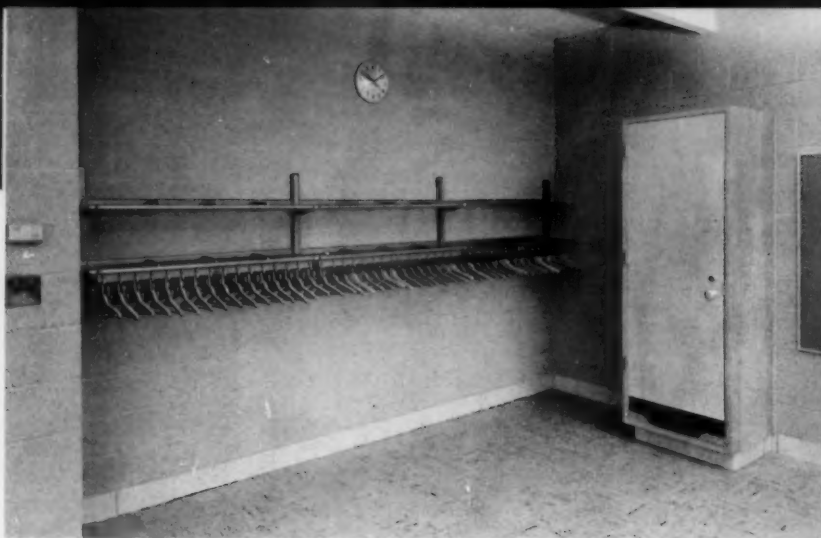
- They give multiple use (chalkrobe—corkrobe combinations)
- They are movable or stationary—come on glides—casters or can be anchored to floor or used in combination with wall mounted units.
- They are adjustable in height to accommodate all age groups and adjustable for spacing between shelves.
- They can be used with coat hangers or hooks or both, and provide shelf space for overshoes, lunch boxes etc.
- They can be grouped for special adult functions.
- They can be arranged as screens to divide groups.
- They can be interlocked and assembled to make rigidly joined multiple units. They have large capacity for size and are fireproof and vermin-proof.

Schooline Wardrobes Promote Orderliness—

- There are provisions for wrap—cap—shoe and lunch box care.
- They give maximum capacity in minimum space.
- They keep wraps aired, dry and exposed to the light.

Schooline Wardrobes are Built to Withstand
Hard Abusive Use.

VOGEL-PETERSON CO., CHICAGO 9, ILLINOIS



Waterford Elementary School
Waterford, Michigan

George D. Mason, Architect
Wm. Shunck, School Supt.

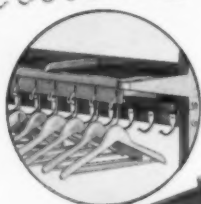
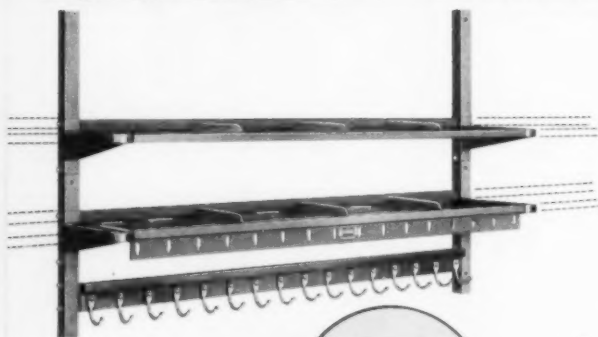


Minnewashta Elementary School
Excelsior, Minnesota

Thorshov & Carr,
Minneapolis, Architects
Wm. O. Nilsen, School Supt.

VOGEL-PETERSON CO.

Schooline® Wallmounts - COAT, HAT and OVERSHOE RACK



Chalkrobes and Cork-
robes are available
with either coat hooks
or coat hangers.

Adjustable Wallmount Wardrobe Racks

These efficient coat and hat racks come in 3'-2" and 4'-2" length units which mount directly on any wall, independently or interlocked to make continuous racks of any length—fit in any available space. They have large capacity. AWHK Models hold 3 or 4 Coat Hangers per running foot—AWHK Models hold 5 or 6 Hooks per running foot. Specify desired capacity of hangers or hooks per foot.

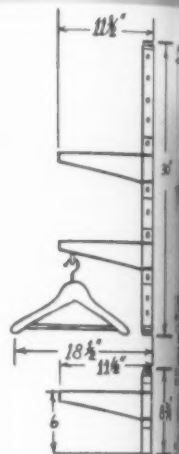
With supporting columns permanently attached to the wall, the shelves are adjustable for height from floor, or distance apart, in 2" steps over a 30" range. Bench shelves can be adjusted at any time to serve any age group. Strongly welded of heavy gauge steel they will stand up under years of hard use.

AW3HR (HANGER STYLE) — 3'-2" long.

AW3HK (HOOK STYLE) — 3'-2" long.

AW4HR (HANGER STYLE) — 4'-2" long.

AW4HK (HOOK STYLE) — 4'-2" long.



Wallmount Overshoe Racks

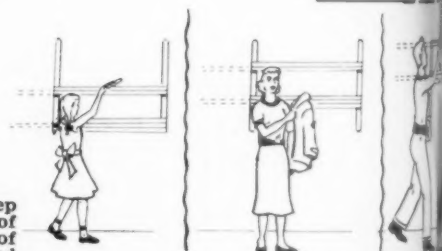
Designed for use in combination with
Wallmount Wardrobe Racks.

Easily mounted on any available wall these sturdy racks keep overshoes etc., off the floor, in a safe orderly manner. Built of heavy gauge, welded steel U-forms they are strong, fire proof and vermin proof. They are so designed that basic 3'2" and 4'2" units can interlock to make a continuous rack of any length.

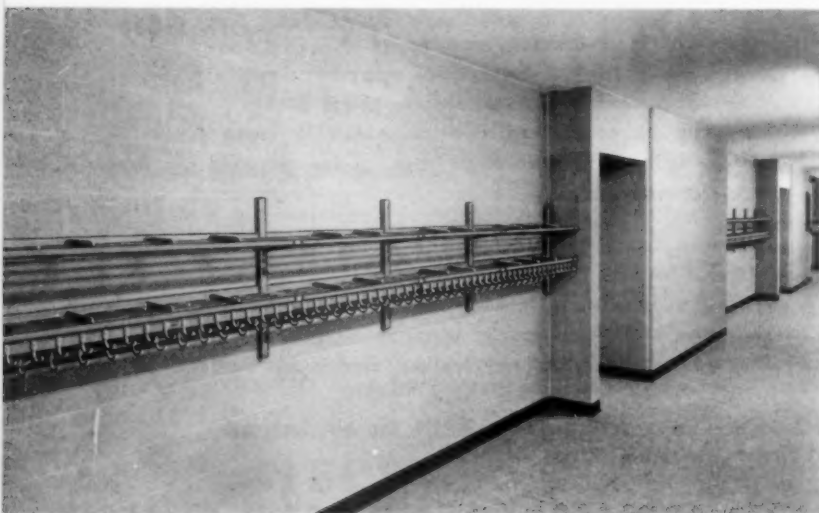
No. B-3 Wallmount Overshoe Rack is 3'2" long.

No. B-4 Wallmount Overshoe Rack is 4'2" long.

U. S. Patent
Applied for
* VOGEL-PETERSON
TRADE MARK

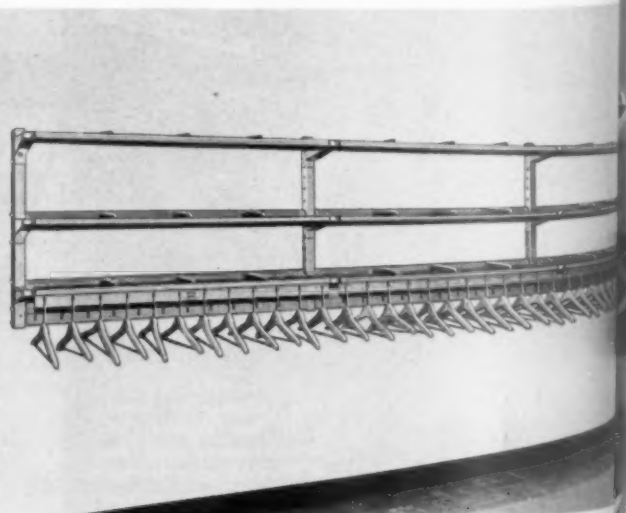


Shelves are adjustable for height to fit
age group without detaching from wall.



Douglas School Addition
Garden City, Michigan

Walter T. Anicka, Architect
Edwin O'Leary, School Supt.



Eastgate Elementary School
Bellevue, Washington

Naramore, Bain, Brink
& Johanson, Seattle,
Architects
George V. Brain, School Supt.

Paneled Units double as "Movable Walls"

All Schooline Chalkrobes and Corkrobes come drilled to receive base enclosure panels which can come as original equipment or added at any time. With panels installed, these units provide not only wardrobe facilities but movable wall units that extend from above the floor to a height of 6'4". They permit complete flexibility in dividing rooms, for screening out distractions or for adapting temporary space for classroom needs. See illustration, right, where Chalkrobes and Corkrobes have formed two separated rooms and provided an entry corridor.



B-7/Vo

Our Lady, Star of the Sea,
Church School, Detroit, Michigan

Robert L. Svoboda, Archt.
Rev. Ralph Barton, Pastor



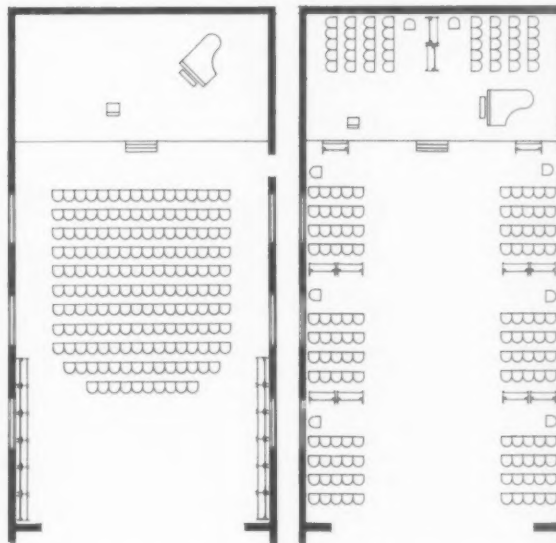
Chalkrobe®

(illustrated left)
No. CH-400 Chalkrobes

an efficient 4 ft. 2" welded steel wardrobe rack unit that permits absolute flexibility in school design. It has large capacity, goes anywhere, can be used singly or in groups and provides a movable chalkboard.

Hat shelves with coat rails are adjustable for height to accommodate different age groups. They provide pupils with a ventilated shelf space, a coat hook or coat hanger and an off-the-floor rack for overshoes. They come on glides, on ballbearing casters or can be anchored to the floor. Built for lifetime service of heavy gauge welded steel, they are permanently beautiful in modern Desert Sage baked enamel.

Chalkrobes are backed with quality chalkboards—are dual purpose units.



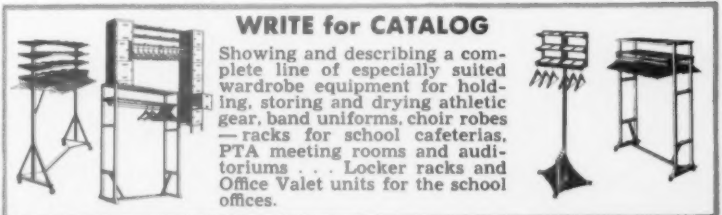
Diagrammatic floor plans illustrate how Schooline units furnish the complete answer to three typical Sunday School problems by providing means for dividing a Fellowship room into many classrooms, making each a complete room with Chalkboards and Corkboards—valuable instruction aids—as well as ample wardrobe facilities.



Corkrobe®

No. CO-500 Corkrobe

is identical in frame, adjustable shelves, capacity and features to the Chalkrobe described above, except that its screening back is a cork board. Framed in non-tarnishing moulding this 4'-2" x 4'-0" cork board provides a convenient surface for mounting maps, pictures, exhibits and announcements, etc. Not only as a compact efficient wardrobe but as a flexible teaching tool these units adapt themselves to any floor plan.



WRITE for CATALOG

Showing and describing a complete line of especially suited wardrobe equipment for holding, storing and drying athletic gear, band uniforms, choir robes—racks for school cafeterias, PTA meeting rooms and auditoriums . . . Locker racks and Office Valet units for the school offices.

Schooline®

Wardrobe Equipment is manufactured by

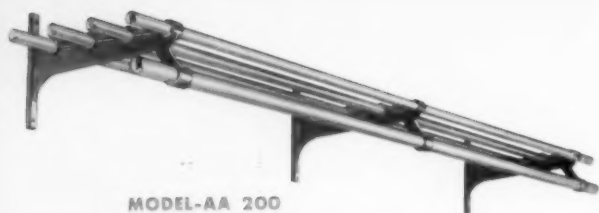
VOGEL-PETERSON CO.

CHICAGO 9, U.S.A.

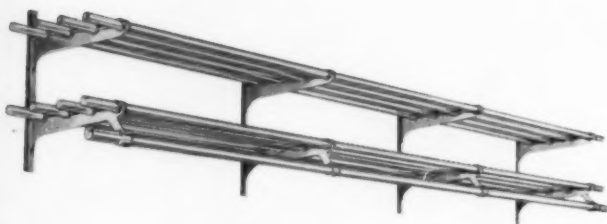
SCHOOLINE WARDROBE RACKS

Manufactured Only By **VOGEL-PETERSON CO.**

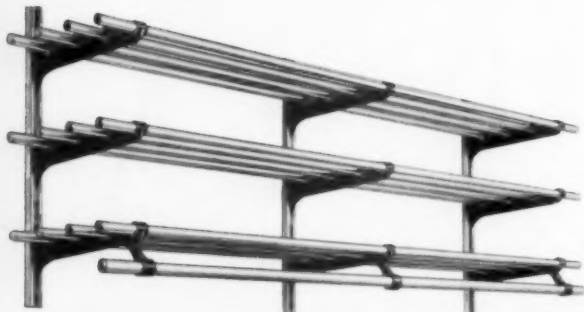
A white wire clothes hanger is centered against a black background. The hanger has a standard triangular shape with a hook at the top.



Illustrated: Single shelf with hanger bar. Furnished any length.



Illustrated: Same as Model AA200 with extra hot shelf.

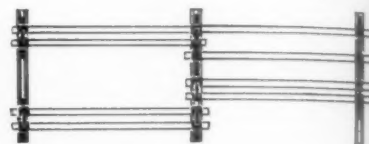


Illustrated: Three shelf coat and hat unit assembled in extrusion mountings to assure perfect vertical alignment of brackets—Plus adjustable height feature. Also available with one and two shelf assemblies.

CUSTOM-LINE
Aluminum
**WALL MOUNT
COAT and HAT RACKS**

models are furnished in lengths of 2', 3', 4', 6', and 8' with brackets 32" on centers. These units can be supplied *assembled* or *knocked down* whichever the user desires. In some instances, it will make for easier installation to work with and hang the brackets and then quickly assemble the tubing in place.

models are furnished in any desired length to fit into recesses, between pilasters and in some cases can be worked across wall irregularities and obstructions. Are available in any combination of multiple shelf units or for two tier garment hanging requirements such as is sometimes needed for band and orchestra coats and jackets or blouses and shirts for home closets. Tailored racks 8'-4" and under are available assembled or knocked down. Those longer than 8'-4" come knocked down.



**Both STANDARD and
TAILORED RACKS...**

COLORS

Aluminum Extrusion Mountings—Same top quality clear or gold anodized finish as the Aluminum tubing.

1. Gold anodized tubing with black brackets and hooks.
2. Clear anodized tubing with silver lustre brackets and hooks.
3. Extrusion mountings should match the color of tubing selected.

Top View

3/4 1/4 1 1/16

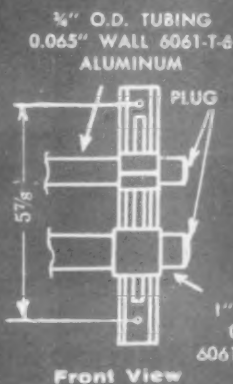
CAP PHILLIPS HEAD SCREWS

Side View

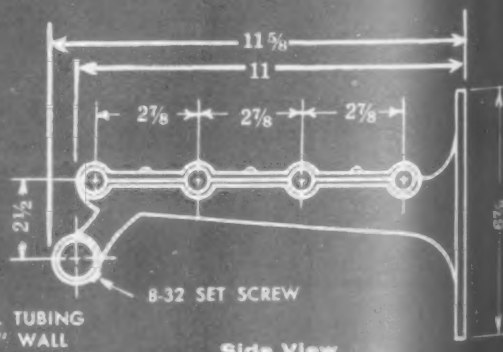
6 7/8

Detailed description: The drawing shows a bracket with a horizontal base and a vertical support. The top view shows a base with four rectangular sections and a tapered end. Dimensions for the top view are 3/4, 1/4, and 1 1/16. The side view shows the bracket's profile with a vertical support and a horizontal base. Dimensions for the side view are 6 7/8. Labels 'CAP' and 'PHILLIPS HEAD SCREWS' point to the fasteners on the base. The drawing is a technical illustration of a mechanical part.

Model 10 Bracket



Front View

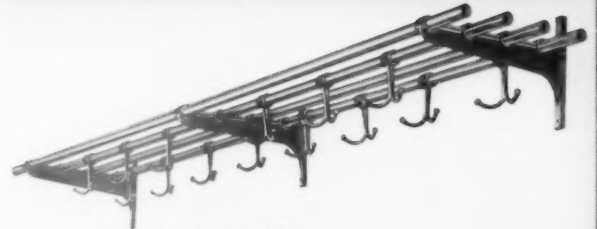


Model 20 Bracket

VOGEL-PETERSON CO. • 1127 W. 37th St. • Chicago

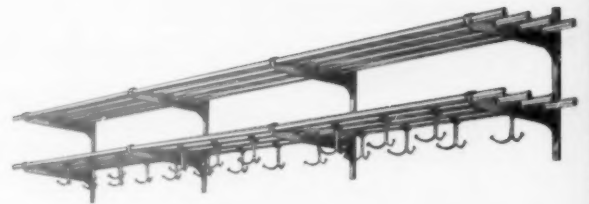
Hook Style RACKS

B-7/Vo



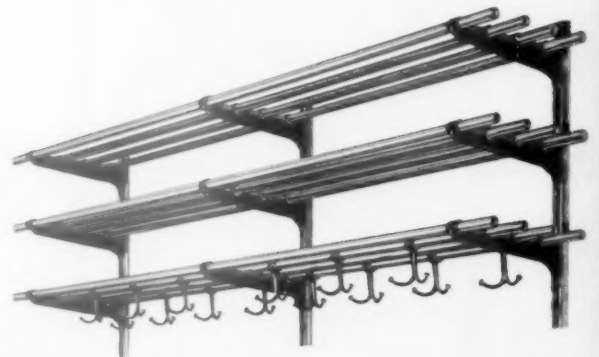
MODEL-AA 300

Single shelf unit with double anchor style aluminum coat hooks staggered approximately 4" O.C.



MODEL-AA 302

Illustrated: Two shelf coat and hat unit with staggered coat hooks.



MODEL-AA 303 E

Illustrated: Three shelf coat and hat unit with staggered coat hooks assembled in adjustable height extrusion mountings.

EXTRUSION "E" MOUNTED RACKS

Anodized Aluminum extrusion mountings may be purchased for standard and tailored to fit models. Suggested application for the use of extruded mountings with our racks are

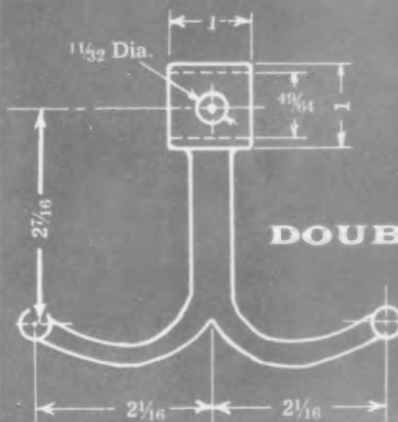
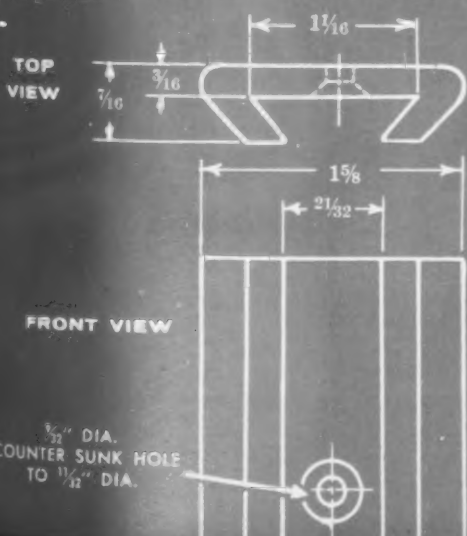
1. For added beauty in multiple shelf units.
2. For ease of adjustment where racks are to be used for growing children and alternate use between children and adults.
3. For perfect alignment of multiple shelf units.
4. To add strength to cast brackets and for firmer wall anchoring.
5. Extrusions available up to 83" in length.



Brackets are held firmly in extrusion mountings but can be readily adjusted vertically to meet any height requirement.

Write to us on any special application that you may have.

EXTRUSION MOUNTING



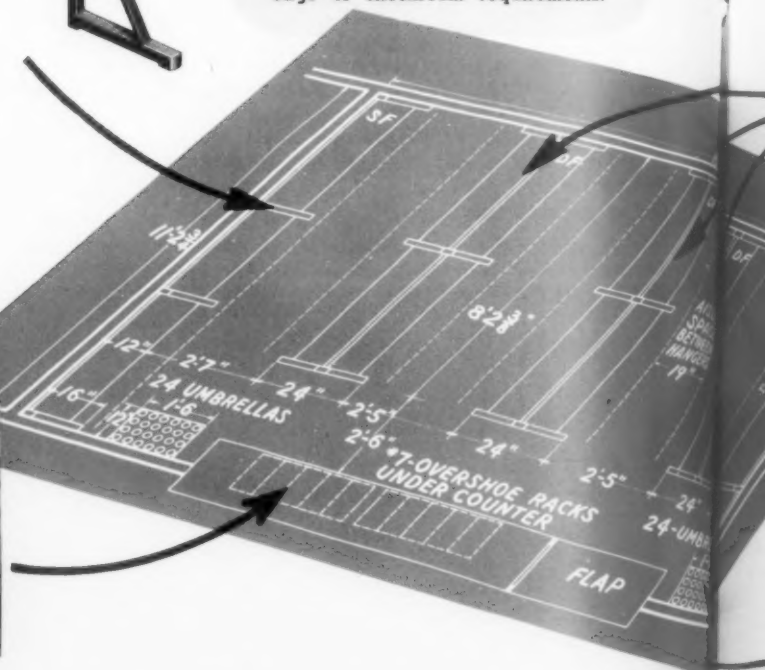
DOUBLE ANCHOR TYPE DIE CAST ALUMINUM COAT HOOK

Designed for durability—capacity and smart appearance. Used on alternate rails they can be staggered 4" O.C. and still give ample coat space without crowding.



Vogel-Peterson High Relief, "Dust Free" Hat Shelves. These shelves are perforated and multiple embossed with narrow longitudinal ribs that keep hats clean and dry. This durable, modern shelving is built for lifetime service. The hanger rail shelves will support at least 100 lbs. per running foot.

Avail yourself of our 30 years' experience and practical knowledge of checkroom requirements.

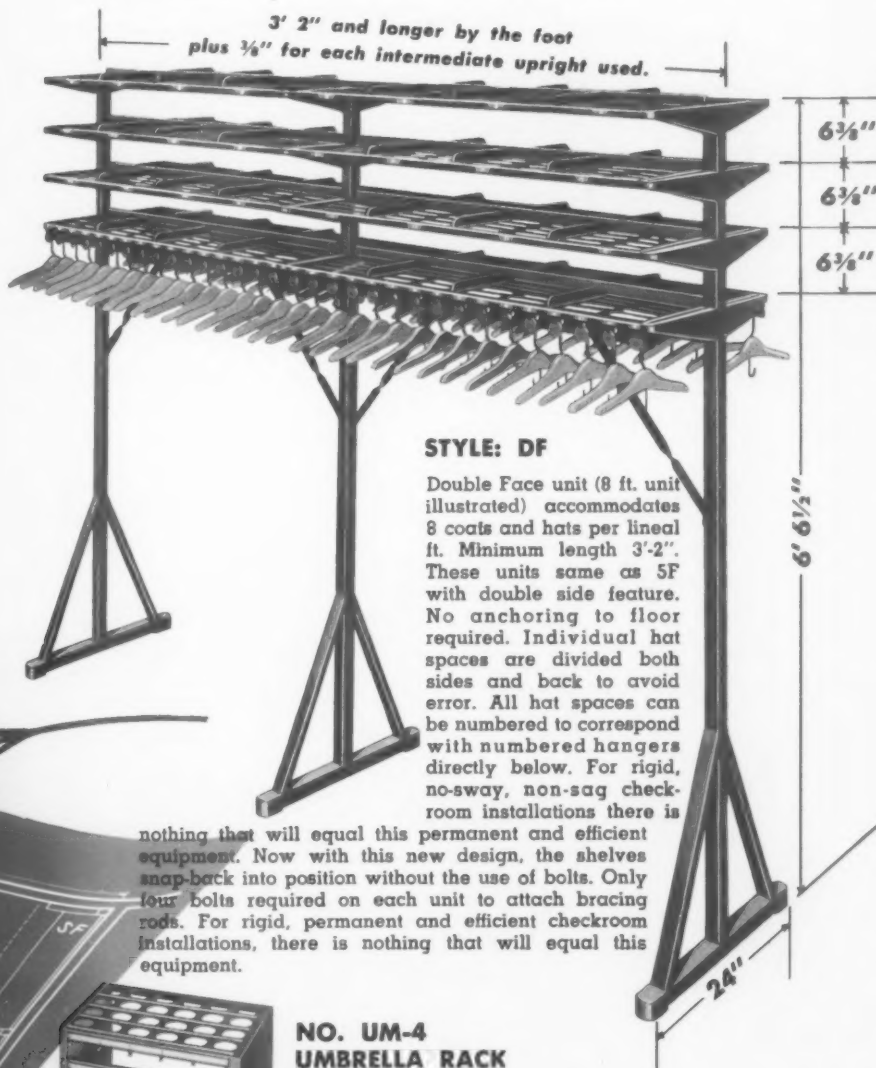


For over 30 years specified by leading

SPEED UP CHECKING SERVICE WITH THE *One-Check System*



With this system a single check identifies all items checked, whether it be one or several. Each coat on a numbered hanger space—each hat in a correspondingly numbered hat space. Canes, umbrellas and overshoes are placed in systematically numbered umbrella or overshoe racks. Cross checks from overshoe and umbrella racks may differ—still are immediately keyed to master guest check. There is no lost time, no errors, confusion, delays nor complaints, because guests need carry only one check, which ends necessity of multiple handling by attendants.



STYLE: DF

Double Face unit (8 ft. unit illustrated) accommodates 8 coats and hats per lineal ft. Minimum length 3'-2". These units same as 5F with double side feature. No anchoring to floor required. Individual hat spaces are divided both sides and back to avoid error. All hat spaces can be numbered to correspond with numbered hangers directly below. For rigid, no-sway, non-sag checkroom installations there is

nothing that will equal this permanent and efficient equipment. Now with this new design, the shelves snap-back into position without the use of bolts. Only four bolts required on each unit to attach bracing rods. For rigid, permanent and efficient checkroom installations, there is nothing that will equal this equipment.

NO. UM-4 UMBRELLA RACK

A very important checkroom accessory which answers the "what to do with wet umbrellas" question. Racks are systematically numbered. Round umbrella dividers are hemmed to give a smooth no-tear edge. Come in standard units of 16 and 24 capacity sizes. Height, 28"; depth, 13"; width, 16 capacity, 12 1/4"; width, 24 capacity, 17 3/4". These units also an integral part of "One-check system." Approximately 20% of hanger capacity meet overall requirements.



Specifications and Construction Details

UPRIGHT FRAME

Welded into one rigid unit. Posts 1 1/2" x 1 1/2" x 18-gauge welded square tubing. Shelf arms—tapered U-channel 20-gauge punched out to engage 1 1/2" sq. post and welded thereto. Arms are reinforced with inserted U-Channel—ends capped with round formed stamping. Hat shelves engage into slots in arms by means of integral self-locking clips.

Bases #16 gauge 1 3/4" wide x 1 1/4" high and punched out to engage post and welded thereto. Box inserts raise base member at extreme end 1/4" from floor. Base ends are capped with round formed stamping welded into ends. Diagonal brace of one-piece channel #16 gauge welded post to base.

SHELVES

One-piece design perforated and embossed sheets of 24-gauge steel welded into rigid channel angle and T frame.

Front channel 1 1/2" x 1 1/2" x 16 gauge.

Back Angle 1" x 1 1/2" x 16 gauge.

Ends are T-shaped 1 1/2" x 3/4" x 16 gauge with two self-locking clips welded under each end.

Narrow longitudinal embossed ribs between perforations hold hats free of dust. Hat dividers embossed 1" high across shelves 12" on center.

Hanger rail is 1 3/4" flange extension of front channel of lower shelf only. Bottom of flange is hemmed to give smooth edge and reinforce V-punched notches that receive garment hangers. V-punched notches are on pre-determined centers.

Sway Braces—1/2" x 3/4" round edge steel.

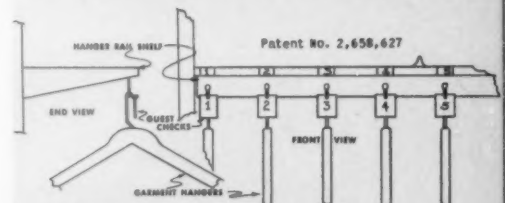
GARMENT HANGERS

Hardwood hangers. No. 10 hard steel rustless wire hook formed to receive guest checks on top (locks hanger on rail preventing knocking off accidentally) and with auxiliary hook beneath shoe bags, umbrellas, etc.

NUMBERING AND CHECKS

Hanger and hat spaces numbered with large clear cut white numerals hot-stamped into clear extruded plastic clips that snap over front shelf channels—furnished only if specified.

Plastic checks 1 1/2" x 1 1/4" with large clear hot-stamped numbers. Furnished only if specified. Checks furnished in three colors—Black—Gray—Red. Printed with name of user when specified.



MATERIAL

Cold-rolled smooth surface furniture-grade steel used throughout.

WELDING

All welding by automatically timed welders assuring positive fusion of materials.

FINISH

Steel is washed and rust-proof coated before application of enamel. Enamel is baked-on at 350°. Baking time thirty minutes.

Standard colors—V. P. Brown—Gray or Green.

CAPACITY

Standard spacing of hangers is 3" o.c. or four to the foot. Can be furnished on 2 1/2" o.c.—five to the foot—or 4" o.c.—three to the foot—when specified.

CASTERS

3-inch Ball-bearing Swivel Casters.

Furnished only when specified. It is not recommended that casters be used on racks exceeding ten feet in length.

All racks ordered with casters are furnished with bottom bracing and gussets extending between base sections of uprights. (See Page 1.)

NOTE: Wall-mounted units are same construction as shelf portion of rack SF with holes punched through tubing for wall mounting. Screws—toggles or expansion bolts for wall fastening are not furnished.

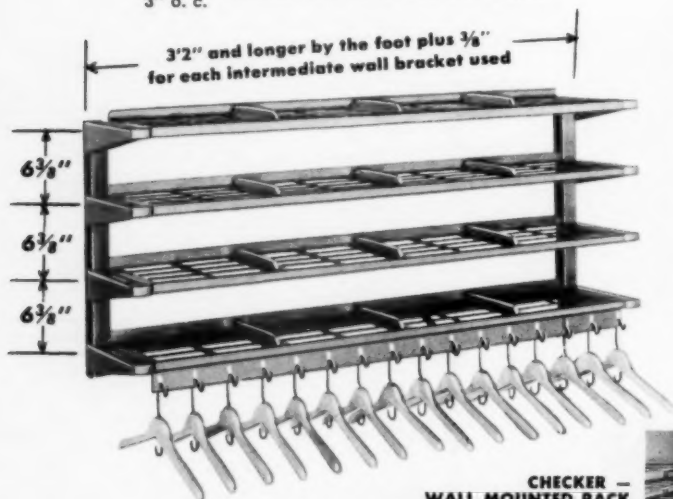
SPECIAL: All units can be ordered with special spacing between shelving or with fewer than four shelves, which is standard.



Wall Mounted Racks

CHECKER — WALL MOUNTED RACK STYLE WM-12—ILLUSTRATED

12'23/4" Long—11 1/2" Deep—22" High.
Extends 18 1/2" from wall including hangers.
WM Series come in any length from 3'2" and
longer by the foot. Accommodates 4 coats and
hats per running foot with hangers spaced
3" o. c.



STYLE: WM CHECKER WALL RACKS

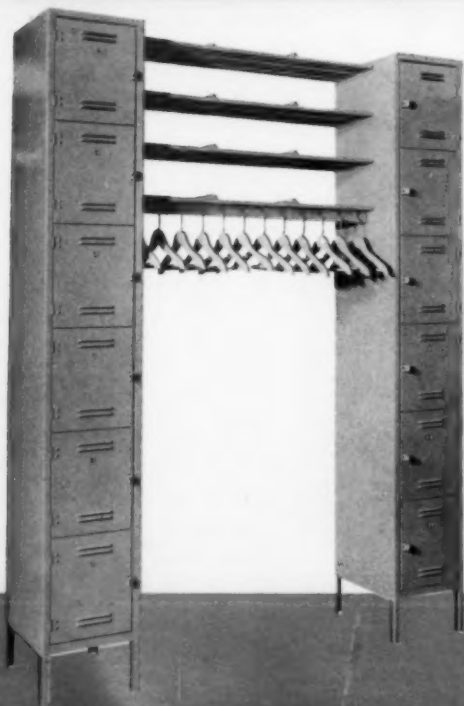
These efficient coat and hat units mount rigidly on walls, accommodate 4 persons per running foot providing for each his individual (numbered) ventilated hat space and coat hanger. Come in any length by the foot, fit in anywhere. Hat shelves extend only 11 1/2 inches from wall. Can be mounted at any height—to accommodate different age groups. Ideal for school cloak rooms, etc. Give cabinet wardrobes and closets check room efficiency. Available with or without numbers. Lifetime welded steel construction, finished in baked enamel.

CHECKER — WALL MOUNTED RACK STYLE WM-4—ILLUSTRATED

4'2" Long—11 1/2" Deep—22" High. Extends
18 1/2" from wall including hangers. WM Series
come in any length 3'2" and longer by
the foot. Accommodates 4 coats and hats per
running foot with hangers spaced 3" o. c.



Locker Racks



NO. LR-3B LOCKER RACKS

Combine the best features of both lockers and wardrobe racks. Keep clothing dry, aired and "in press." Accommodate 12 people in 5'0"x15" floorspace. Height 6'7 1/2". Provide each with ventilated hat space, coat hanger and 12"x12"x15" Lock Box (6 to each pedestal). Doors open left and right have "stay shut" hasp. (Built-in flat master keyed locks available.) Keep wet clothing away from lunches, drawing instruments, micrometers and such personal effects. Improve health and morale.

Durable steel construction, baked-on enamel finish—green, brown or gray. Leg adjustments compensate for irregularities in floor. Portable and space saving, can be installed near point of work to end locker-room evils.

VOGEL-PETERSON COMPANY
1121 W. 37th St., Chicago 9, Ill.

GLYNN • JOHNSON corporation



R-8/01

where there's **LIFE!**



specify GJ hardware for **SAFE CONTROL** of all **SCHOOL DOORS**

When eager, exuberant young people are "on their way" there's not much slowing down to remove obstructions like doors. The force created by a door heaved open with a hearty push can be quite destructive if that force is frequently repeated and if that force is not put under control or absorbed. Walls, reveals, hinges, jambs and door closers soon show signs of wear, distortion, and destruction. Excessive maintenance and repair bills are the result.

Basically GJ door stops and holders were designed to **CONTROL** the free opening action of doors . . . to absorb the shock and noise of sudden stops . . . to keep doors from hitting walls and other obstructions . . . and to reduce door opening action by holding the door open when traffic is heavy or at dismissal time.

Every door holding and door stopping problem . . . including the requirements of a limited school budget . . . can be met with the long wearing, high quality GJ devices shown on the following pages.

a **CUSHIONED STOP** for violent openings.
Protects wall, door, jamb, closer,
and other hardware.

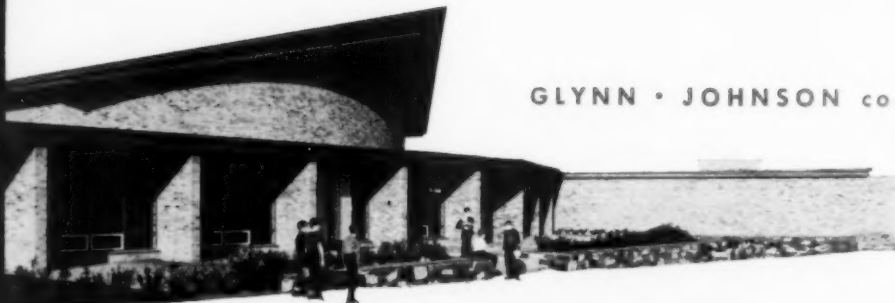


HOLDS THE DOORS at dismissal time . . .
eliminates unnecessary wear and abuse.

A. I. A. File No. 27 B



GLYNN • JOHNSON corporation



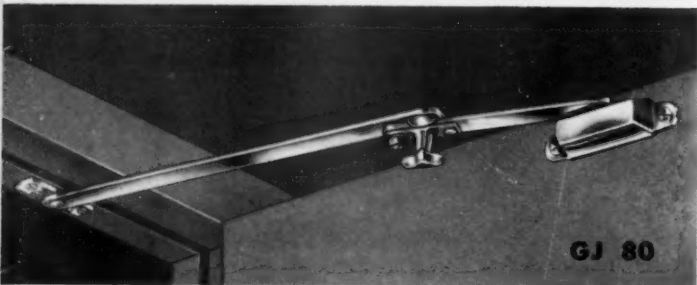
HEATHCOTE ELEMENTARY SCHOOL, SCARSDALE, N. Y.
Perkins and Will, ARCHITECTS, CHICAGO

highest quality
CONCEALED INSTALLATION

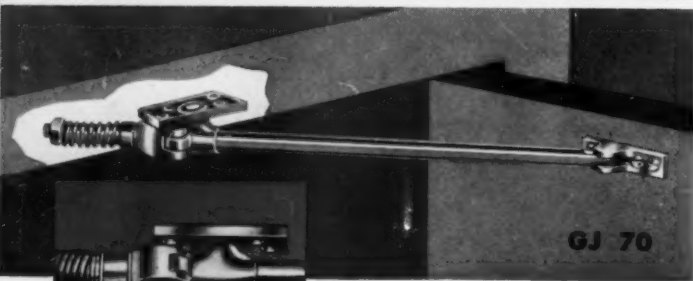
for the modern school entrance and other heavy doors . . .



GJ 90



GJ 80



GJ 70

with fusible washer

Can be installed in
conjunction with surface
type door closers.

GJ 100 and 200 concealed overhead door holder, stop, and shock absorber with safety release. For modern single or double acting entrance and vestibule doors. Also gymnasium, auditorium, and all exterior doors. Styles for offset, center hung, and butt hung doors; metal, wood, or all glass. Preferred by architects who strive for the modern appearance achieved by "hidden" hardware.

highest quality SURFACE INSTALLATION

GJ 90 surface type overhead door holder, stop, and shock absorber with safety release. For single acting entrance and vestibule doors. Also gymnasium, auditorium, and all exterior doors. Styles for offset, center hung, and butt hung doors; metal, wood, or all glass. Preferred because it can be installed quickly on new or existing doors.

moderately priced SURFACE INSTALLATION

GJ 80 surface type overhead door holder, stop, and shock absorber with safety release. For single acting gymnasium, auditorium, and classroom doors. Also lower cost entrance and vestibule installations. Made in three sizes for different door widths and any type of door hanging. Durable made for practical function in moderate cost installations.

low budget SURFACE INSTALLATION

GJ 70 surface type overhead door holder, stop, and shock absorber with safety release. Can be specified for entrance and vestibule doors where the budget is limited. Also other exterior and interior doors.

Made in four sizes for different door widths and any type of door hanging. A low cost, stout, practical device.



latest details and templates of any GJ device . . . AVAILABLE IMMEDIATELY.



GJ OVERHEAD DEVICES offer the utmost in door control, safety, and protection where doors need not be opened beyond 110°.

Entrance doors, vestibule, stairwell, classroom, and all other doors that have student traffic . . . should have the protective advantages of these overhead door stops and holders. Their resilient spring cushions, with their 5° to 7° "give", comfortably absorb the shock and sound of stopping the door. Being overhead, they are out of the way and offer no stumbling or cleaning hazard or invitation to vandalism. They hold the door

automatically and have a SAFETY RELEASE for quick closing in emergency.

The styles shown below are variously recommended for different school doors according to the size and function of the door . . . allowing a variation in selection according to individual preferences and school building budgets. They are all manufactured of high tensile strength bronze alloys in all standard finishes.

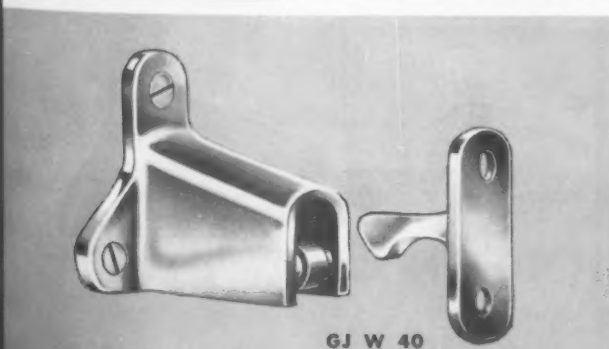
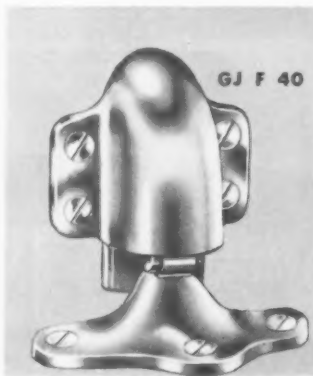
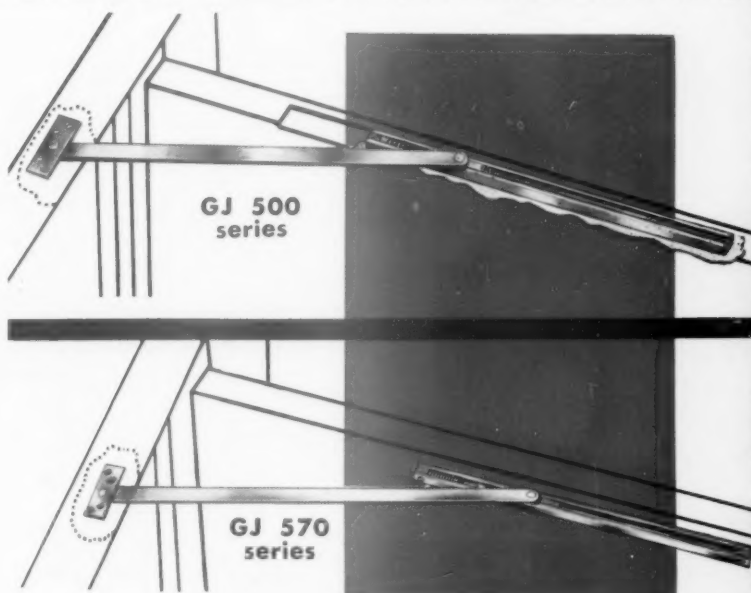
CLASSROOM DOORS and other interior doors should have protection of safe overhead control . . .

Overhead holders are out of the way and cannot be tampered with or cause accidents.

GJ 500 series • CONCEALED INSTALLATION

GJ 570 series • SURFACE INSTALLATION

The door is held open and released by a simple push and pull action. The resilient cushioned door stop with its 5° to 7° give absorbs the shock and sound of violent door openings. Made in four sizes for doors of different widths and all styles of door hangings . . . single or double acting. Non-handed.



FLOOR and WALL TYPE door holders and bumpers for doors opening to a complete 180°

for ENTRANCE DOORS and other exterior doors.

GJ F 9 floor type semi-automatic, functioning as bumper and holder. Hook attached to door slides under engagement tongue and holds until released by pushing door back. Where doors are extra large, the heavier **GJ F 10** is recommended.

for CLASSROOM DOORS and other interior doors.

GJ F 40 floor installed. **GJ W 40** wall installed. Quiet operating bumpers with push-pull holder and release. Fool proof. Engage on contact, releases by firm pull. The rounded edges prevent children from riding or standing on the holder. The most widely used bumper-holders in school installation.



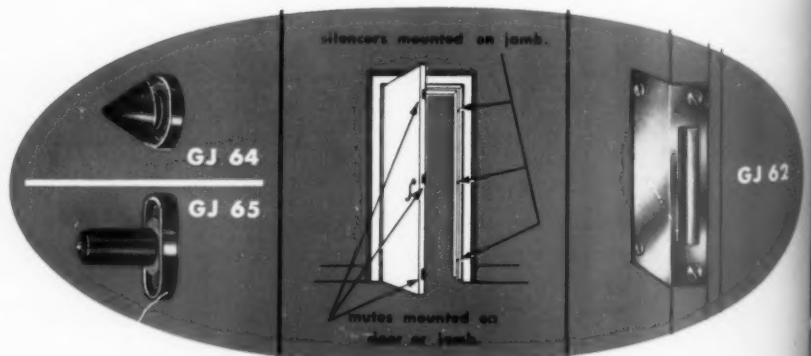
for quiet DOOR CLOSING . . .

GJ silencers and mutes hush the noise of slamming doors.

GJ 64 and GJ 65 rubber door silencers

Inexpensive, pneumatic cushions—GJ 64 installed in metal frames, GJ 65 in wood frames—absorbs shock and noise of door closing and eliminates lock rattle.

GJ 62 mutes. Recommended for doors having no door closers. Noise and force of severe slams absorbed, reducing noise and destructive shock.



For further help in specifying or ordering see your local GJ Contract Hardware Dealer and Hardware Consultant or write direct.



floor and wall type door bumpers with holders

GJ F 20 floor installed. GJ W 20 wall installed. Holder and bumper with strike plate hook. Hook is flipped up to engage door. When disengaged, hook falls and "flts" into strike plate.



floor type door holders

Recommended where traffic is light and a door stop is not required. Attached to base of door, holds door open at any position. Rubber shoes grip firmly.

GJ 4 lever action. Highest quality bronze in various finishes and sizes. Also GJ 44 and GJ 444 for lower budget.

GJ 1153 (aluminum) • GJ 1154 (bronze or brass) plunger action. Contact and spring trigger release by foot. Available in all finishes.



floor and wall type bumpers

GJ FB 18 • GJ FB 19 floor type door stops and bumpers. In heights 2 1/8" and 2 7/8" and for mounting with wood screws or expansion shields. Solid rubber tip.

GJ BP 1 floor type door stop with plunger cushion for absorbing shock. Securely anchored into floor. Heavily built. Furnished with strike plate for door.

GJ BP 2 wall type stop with plunger cushion.

GJ FB 13 • GJ FB 14 dome type door stops and bumpers, floor mounted. Styles adapted to installations without or with thresholds for wood screw, machine screw or expansion shield mounting.

GJ WB 35 extended wall type door stops and and bumpers, 2 3/4" long with sloping top. All available for either wood screw or expansion bolt installation.

GJ WB 5 flush type wall bumpers to protect knobs, wall and reveals. Available from 1" to 4" diameter, and from 9/16" to 1" projection . . . for screw or toggle mounting. Brass or bronze.

GJ RB 4 roller bumpers. Prevent two interfering doors from striking or their knobs from locking.

GJ 21A four way catch and GJ 22 two way catch. Ideal for cabinet, wardrobe, and sliding doors. One permanent installation—no repairs or replacement. Ball under spring pressure "pulls" sagging doors into line.



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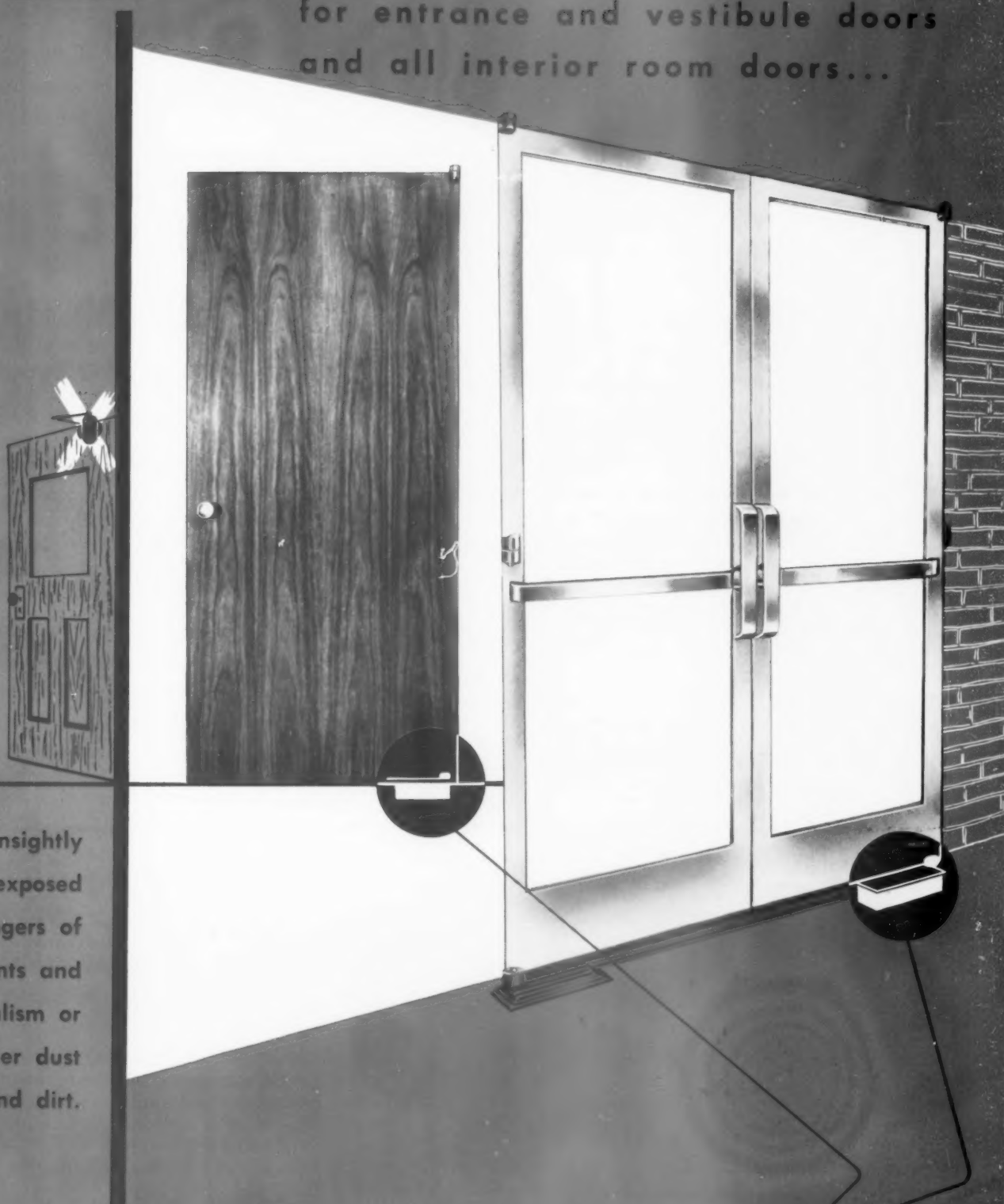
GLYNN • JOHNSON CORPORATION
4422 north ravenwood avenue • chicago 40, illinois

for the modern school, specify

RIXSON

concealed DOOR CLOSERS

for entrance and vestibule doors
and all interior room doors...

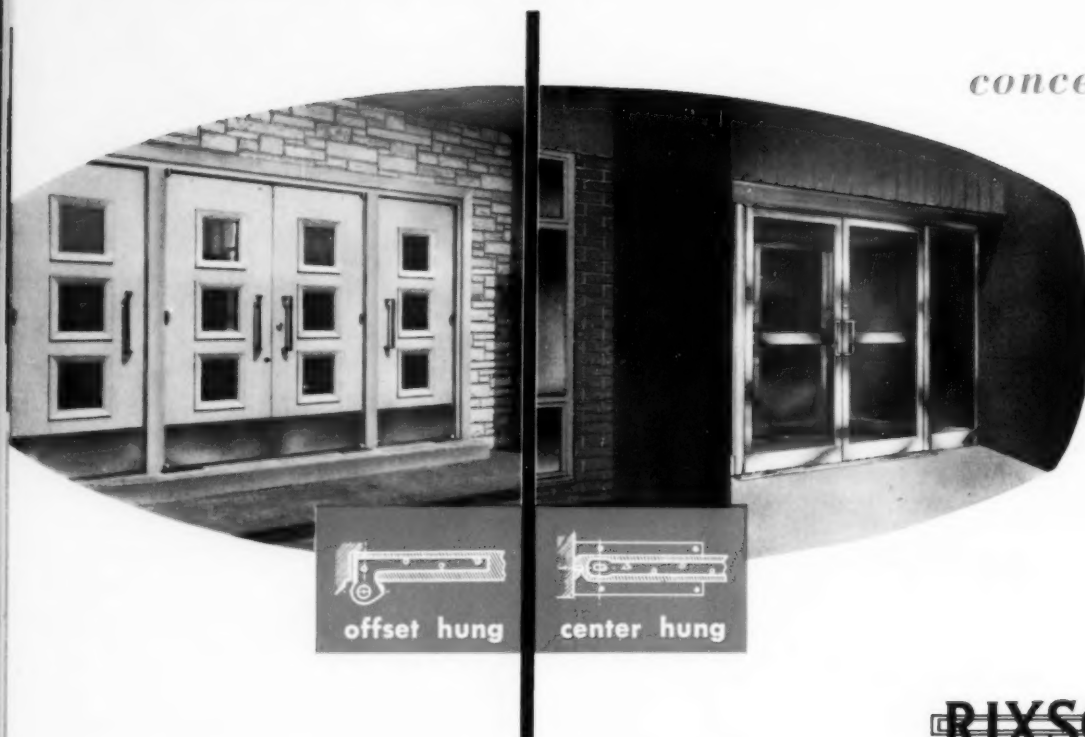


no unsightly
mechanism exposed
to dangers of
accidents and
vandalism or
to gather dust
and dirt.

conceal the closer and expose the beauty of the door

RIXSON floor type closers are firmly installed in the rigid floor

conceal the closer and



for MODERN entrance doors and vestibule doors these heavy duty closers are preferred:

single acting doors: no. 25 offset hung • no. 26 center hung • no. 326 butt hung.

double acting doors: no. 40 center hung.

for schools with lighter entrance doors not over 2' 10" wide these smaller closers are often used:

single acting doors: no. 20 offset hung • no. 21 center hung • no. 321 butt hung.

double acting doors: no. 30 center hung.

for MODERN Stairwell, Auditorium, Gymnasium, and Cafeteria entrance doors:

single acting doors not over 3' 6" wide: no. 20 offset hung • no. 21 center hung • no. 321 butt hung.

single acting doors under 3' wide: no. 18 offset hung no. 18½ center hung • no. 318½ butt hung.

double acting doors: no. 30 for doors not over 3' 6" wide no. 40 for larger, heavier doors.

RIXSON floor type heavy duty closers

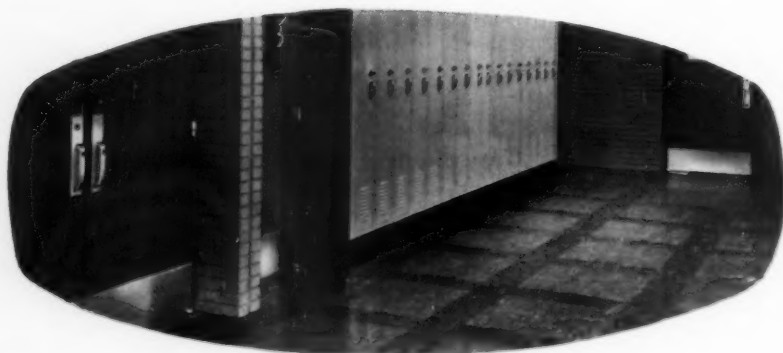
FIRMLY INSTALLED in the RIGID FLOOR

Allow full opening of door—no obstructions.

Will not gather dust or dirt. Cannot be tampered with.

"the strongest of them all"

These are the famous "Floor Checks" originated and developed through the years by RIXSON. The most dependable door closing devices for entrance, vestibule and other heavy doors, they allow doors to operate thousands and thousands of times with a minimum of maintenance or repairs.



The single acting **UNI-CHECK** is widely used for modern classroom doors. Also office, toilet room and other interior doors.

The **DUO-CHECK** meets the requirement of some cities for double acting classroom doors. They are also used for cafeteria and kitchen doors.

RIXSON floor type closers for interior doors

FIRMLY INSTALLED in the RIGID FLOOR

Allow trim, neat, modern appearing corridors showing no unsightly devices.

Eliminate the hazards of accidents and tampering. No exposed arms or mechanism to gather dust or dirt.

Cost no more for over-all installation . . . offer longer wear with minimum maintenance.

built-in hold-open available on both UNI-CHECKS and DUO-CHECKS

A hold-open is built in at the factory. Just specify "with hold-open" when ordering.

expose the beauty of the door...



RIXSON

B-8/Ri

every school door should be under the safe control of a RIXSON closer

For SAFE CONTROL of school doors . . . the closers must be designed for extremes of usage. RIXSON closers are ruggedly built by precision methods to meet all school requirements . . . easy to open yet they firmly bring the door to a quiet rest at closed position. Specify RIXSON throughout. There's a RIXSON closer to suit every exterior and interior door requirement.

**SINGLE ACTING • offset type
no. 18 • no. 20 • no. 25 (handed)**

Entire weight of door is carried on the spindle supported by ten 9/32" chrome steel Ball Bearings. A top pivot (and on heavy or wide doors, a side jamb pivot) keeps the door in alignment.

Single acting closers nos. 318½ • 321 • 326 available for use with standard hinges.

**SINGLE ACTING • center hung
no. 18½ • no. 21 • no. 26 (handed)**

No hardware shows on this completely concealed type of installation. Widely used on batteries of doors with no mullions . . . effecting an economy of space. The two larger sizes available for glass door installations.

**DOUBLE ACTING • center hung
no. 30 • no. 40**

For doors swinging both ways. Hardware completely concealed. Double springs and double hydraulic cylinders make it completely adjustable to varying "in and out" wind and air conditioning problems. Also available for glass doors.

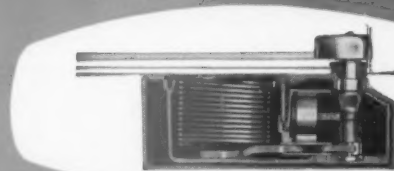
**SINGLE ACTING • offset type
UNI-CHECK • nos. 65 • 66 • 67 • 68
for fire doors • nos. F65 • F66 • F67 • F68**

The modern concealed checking device for interior doors. Gentle, uniform, silent closing action. Supplied with built-in hold-open if desired. Requires small floor area . . . only 2-27/32" deep. Ruggedly built for long, continuous trouble-free action.

Underwriters' Laboratories approve Uni-Checks for FIRE DOORS when equipped with special BB top pivot and no hold-open. See next page for Underwriters' Laboratories approved no. 36 hold-open arm for Uni-Checks.

**DOUBLE ACTING • center hung
DUO-CHECK • nos. 10 • 12 • 15 • 16**

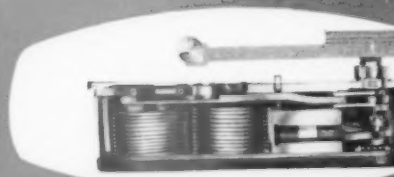
For interior doors swinging both ways. Completely concealed . . . allows a trim, neat, modern appearance. Requires very little floor area or depth. Available with automatic hold-open if desired.



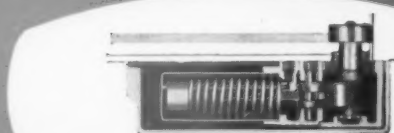
nos. 18 • 20 • 25



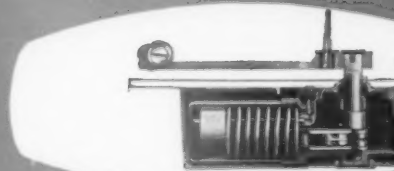
nos. 18½ • 21 • 26



nos. 30 • 40



nos. 65 • 66 • 67 • 68

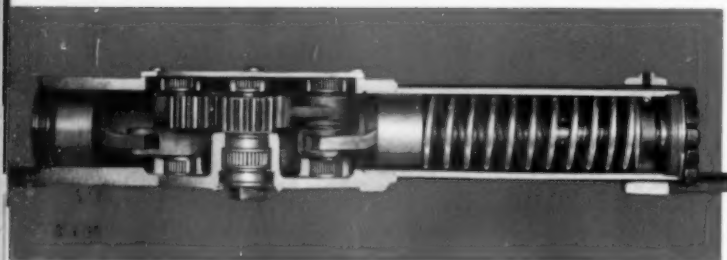


nos. 10 • 12 • 15 • 16

RIXSON

OVERHEAD CONCEALED CLOSERS

with ALL the door controls built-in!



RIXSON nos. 218½ • 221 • 226 for center hung installations

RIXSON nos. 218 • 220 • 225 for doors hung on hinges.

Each a compact powerhouse, only 2⅞" wide x 2⅞" high x 17" long. Ideal where head jamb is shallow and narrow

For entrance and vestibule doors nos. 225 and 226 are recommended. Nos. 220 and 221 widely specified for stairwell doors, gymnasium and auditorium doors. Nos. 218 and 218½ often used to control classroom and office doors as well as toilet room doors.

1. two closing speed adjustments

The closing speed from open to approximately 20° is controlled by one adjustment and the latch speed from 20° to closed position by another.

2. hydraulic shock absorber (back check)

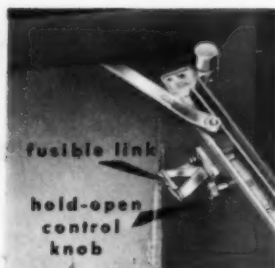
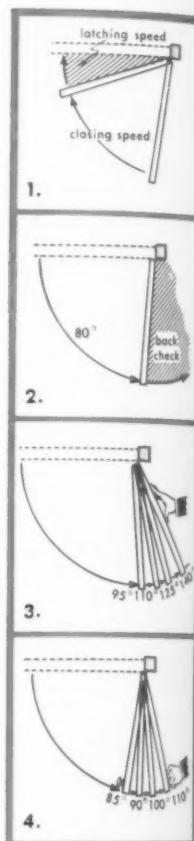
At approximately 80° a hydraulic resistance starts to slow down or check the opening action of the door. Hydraulic back check optional.

3. spring cushion door stop

Door is "cushion stopped" at choice of any one of 4 factory-set positions—95°, 110°, 125° or 140°. Stop removed for wider openings to 160°.

4. built-in door holder

When specified—built-in to hold door at choice of 85°, 90°, 100° or 110°.



Underwriters' Laboratories Approved

FUSIBLE LINK no. 36 HOLD-OPEN ARM

for use with RIXSON UNI-CHECKS

For doors requiring a Fusible Link hold-open device, Nos. F65, F66, F67, F68 Uni-checks with No. 36 hold-open arm with primed iron BB top pivot are approved by Underwriters' Laboratories, Inc.

Holds the door at 90°. A turn of the knob engages or disengages automatic door holder. In case of fire, U. L. approved Fusible Link releases at 160°F and door closes automatically. A firm push will also close door.

THE OSCAR C. RIXSON CO. 9100 w. belmont ave. • franklin park, illinois

write direct
for complete
templates
or contact
your local
RIXSON
representative

Printed in USA

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YALE

LOCKS AND HARDWARE

Yale and Towne offers architects and builders a complete selection of highest quality locksets and finishing hardware to meet every commercial, institutional and better residential need. Outstanding in beauty, styling, functional efficiency and durability, Yale locks and hardware reflect both good judgement and fine taste, wherever specified. The following pages list the principal locksets and hardware to meet most requirements. Comprehensive catalogs are available on request, listing these and other items in the complete line offered by Yale — the finest name in hardware.

5400 Series LOCKSETS

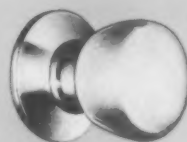
Heavy Duty, Cylindrical

Yale 5400 Series Cylindrical Locksets feature a wide selection of outstanding traditional and contemporary designs, "function-fitted" models for every locking need and the exclusive Yale pin-tumbler action with all single and master-keying conveniences. When you specify Yale, you are assured the finest in beauty, quality, operating convenience and lasting security.

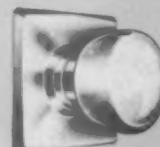
Designed for a lifetime of smooth, positive operation under the most severe conditions. Heavy-duty brass and dichromated steel construction throughout. Seven basic knobs; roses and accessory trim to please the most discriminating tastes. Brass, bronze, aluminum, (Litchfield and Greenfield designs also in stainless steel), all interchangeable; 24 functions. Standard $2\frac{3}{4}$ " backset or 5", 7", 18" extensions. Standard $1\frac{1}{4}$ " lip strike. Simple two-hole installation.

JIFFY SELECTOR CHART		Outside		Inside		Fed. Spec. #	
Plain Knob						161A	161G
Push Button						161R	161H
Turn Button						161R	161H
Universal Button						161R	161H
Emergency Keyway						161R	161H
Thumb Turn						161R	161H
Cylinder Knob with Occupancy Indicator						161R	161H
Blank Plate						161R	161H
Outside	Inside	Fed. Spec. #		Fed. Spec. #		Fed. Spec. #	
		161A		161G		161G	
5407 Exterior	5419 Store Door						
		161R		161H		161H	
5408 Classroom	5420 Hotel						
		161NX		161S		161S	
5409 Exit	5421 Communicating						
		161N		161T		161T	
5401 Passage	5422 Dormitory						
		161L		161U		161U	
5402 Privacy	5423 Communicating Suite						
		161P		161W		161W	
5403 Button	5424 Classroom Hold-back						
		161B		161C		161C	
5404 Office	5425 Exit						
		161D		161F		161F	
5405 Stateroom	5426 Store Door Hold-Back						
		161E		161W		161W	
5406 Service Station	5430 Fixed Knob						

VARIETY OF DESIGNS



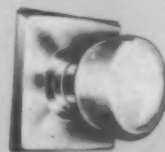
LITCHFIELD (LF)
Laminated; knob $2\frac{1}{4}$ ",
rose $2\frac{3}{8}$ " dia.



LITCHWOOD (LW)
Laminated; knob $2\frac{1}{4}$ ",
rose $3\frac{1}{8}$ " square.



GREENFIELD (GF)
Cast; knob $2\frac{1}{4}$ ",
rose $2\frac{3}{8}$ " dia.



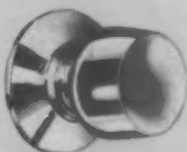
GREENWOOD (GW)
Cast; knob $2\frac{1}{4}$ ",
rose $3\frac{1}{8}$ " square.



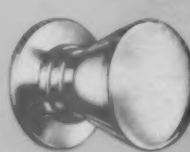
BEDFORD (BE)
Cast; knob 3",
rose $2\frac{3}{8}$ " dia.



CLASSIC (CL)
Cast; knob $2\frac{1}{4}$ ",
rose $2\frac{3}{8}$ " dia.



BRANDYWINE (BR)
Laminated; knob $2\frac{1}{4}$ ",
rose $2\frac{3}{8}$ " dia.



ESSEX (ES)
Cast; knob $2\frac{1}{4}$ ",
rose $2\frac{3}{8}$ " dia.



MEDFORD (ME)
Laminated; knob
 $2\frac{1}{4}$ ", rose $2\frac{3}{8}$ " dia.



MEDWOOD (MW)
Laminated; knob
 $2\frac{1}{4}$ ", rose $3\frac{1}{8}$ " square.

FINISHES:

AZ10 (Bright Brass - US3), BZ10 (Bright Bronze - US9),
BY22 (Dull Bronze - US10), DZ10 (Bright Chrome - US26),
DY10 (Dull Chrome - US26D), LY43 (Anodized dull Satin Aluminum - US28),
SS22 (Stainless Steel)

TO SPECIFY:

Prefix design symbol to lock series number.
Example: LF5401 is Litchfield knob and rose,
5400 series lockset for passage latch. Complete
detailed data on all Yale cylindrical locksets
on request.

5300 Series LOCKSETS

Standard Duty, Cylindrical

Specifically designed for better residences, stores, etc., Yale 5300 series locksets are engineered for smooth operation, plus durability. Brass and heavy-gauge, cold-rolled steel construction. Six basic knobs; roses, trim and handles comparable to the 5400 series; all interchangeable. 21 functions. Standard 2 3/8" backset, 5", 7", 10", 18" extensions. Standard 1 1/4" lip strike. Simple two-hole installation.

VARIETY OF DESIGNS



LITCHFIELD (LF)
Wrought 2" knob,
rose 2 3/8" dia.



CLASSIC (CL)
Cast 2" knob,
rose 2 3/8" dia.



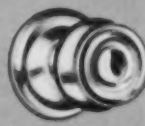
LITCHWOOD (LW)
Wrought 2" knob,
rose 2 3/8" square.



TROY (TR)
Wrought 2 1/2" knob,
rose 2 3/8" dia.



BRANDYWINE (BR)
Wrought 2 1/8" knob,
rose 2 3/8" dia.



NASSAU (NA)
Cast 2" knob,
rose 2 3/8" dia.



MEDWOOD (MW)
Wrought 2 1/8" knob,
rose 2 3/8" square.



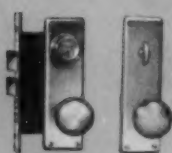
BEVERLY (BL)
Laminated 2 1/4" knob,
rose 4 1/2" dia.

YALE SELECTOR CHART		Outside	Inside	Fed. Spec. 160E	Outside	Inside	Fed. Spec. 160E
Plain Knob							
Push Button							
Turn Button							
Universal Button							
Emergency Keyway							
Thumb Turn							
Cylinder Knob with Occupancy Indicator							
Blank Plate							
		Outside	Inside	Fed. Spec. 160N	Outside	Inside	Fed. Spec. 160N
		5301 Passage	5309 Exit		5314 Storeroom Closet	5315 Classroom Closet	
		5302 Privacy	5310 Exit		5316 Double Cylinder		
		5303 Button	5311 Communicating		5320 Metal & Metal		
		5304 Office	5312 Universal		5322 Dormitory & Metal		
		5305 Storeroom	5313 Closet Latch		5328 Exit		
					5331 Twin Communicating		
					5332 Metal & Metal		

MORTISE LOCKSETS

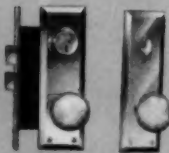
Wrought Trim, Brass, Bronze, Chrome

TORIAN (CT)



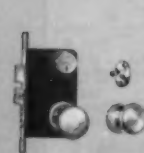
Escutcheon:
7 1/2" x 2 1/4"

UTOPIAN (CU)



Escutcheon:
8" x 2 1/2"

YARDIAN (CY)



Cylinder outside.
Turn and plate inside.
Rose: 2"

XENIAN (DX)



Cylinder outside.
Turn and plate inside.
Knob: Cast shank. Rose: 2"

KNOBs and ROSES

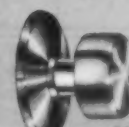
For mortise locks
cast brass, bronze, alum.
Knobs: 2 1/4" dia.
Roses: 3 1/2" dia.



CLASSIC (CL35)
2-21/32" proj.



ESSEX (ES35)
2 7/8" proj.



MEDFORD (ME35)
2-7/32" proj.

For Cylinder
Locksets
Knob: 2" dia.

For Inside Sets
Knob: 2" dia.

For Bathroom Sets
Knob: 2" dia.



Escutcheon:
7 1/2" x 2 1/4"



Escutcheon:
7" x 2 1/4"



Key plates
both sides:
1 3/8" x 1"
Rose: 2"



Key plates both sides:
1 3/8" x 1"
Knob: Cast shank.
Rose: 2"



Escutcheon:
7 1/2" x 2 1/4"



Escutcheon:
7" x 2 1/4"



Turn and plate
inside. Rose: 2"



Turn and plate inside.
Knob: Cast shank.
Rose: 2"

Add "S" to number
for screwless shank.

MORTISE LOCKSET FUNCTIONS

Application	Torian	Utopian	Yardian	Xenian	Mortise Size	Backset
Inside Door	CT18201	CU18201	CY18201	DX18202	3 3/4 x 5/8 x 3 1/4	2 1/2
Bathroom Door	CT18191	CU18191	CY18191	DX18192	3 3/4 x 5/8 x 3 1/4	2 1/2
Front Door	CT77501	CU77501	CY77501	DX77502	3 3/4 x 3/4 x 3 3/4	2 1/2
Office Door	CT76561	CU76561	CY76561	DX76562	3 3/4 x 3/4 x 3 3/4	2 1/2
Entrance Door	CT76601	CU76601	CY76601	DX76602	3 3/4 x 3/4 x 3 3/4	2 1/2
Classroom Door	CT76461	CU76461	CY76461	DX76462	3 3/4 x 3/4 x 3 3/4	2 1/2
Knob Latch	CT10031	CU10031	CY10031	DX10032	1 3/4 x 1 1/16 x 3 3/8	2 1/2

Complete detailed data on all Yale Mortise Locks on request.

ENTRANCE HANDLE AND PLATE SETS

XG74201

Forged: Simulated
hammered iron
Handle: 10 3/4" x 3"
Plate: 3 1/2" x 1 3/4"

XH74201

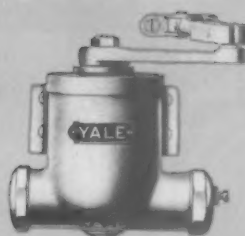
Forged: Brass, chrome
Handle: 10 3/4" x 2 1/2"
Plate: 2 3/8" x 2"

DOOR CLOSERS

F-4 Ya

STANDARD CLOSERS 71, 72, 73, 74, 75, 76A, 76B

Rugged, efficient Standard Type for easy installation and maintenance economy. Hydraulic checking with separate adjustment of both general and latching speeds. Universal type, non-handed, except Nos. 76A and 76B. With or without Hold-Open, also in Fusible Link, Parallel Arm and Coupon Booth types. State application and hand.



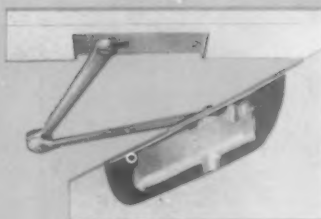
COMPACT CLOSERS 92, 93, 94, 95

Combines modern appearance with high efficiency and excellent door control. Rotary piston hydraulic checking. Separate adjustment of both general and latching speeds. Self-lubricating arm bearings. Reversible. With or without Hold-Open, also in Hospita', Parallel Arm, Fusible Link, and Railroad types. State application and hand.



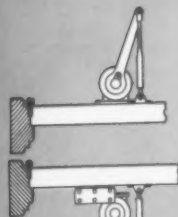
CONCEALED CLOSERS 82, 83, 84, 85

Mechanism concealed in door, rack and pinion construction with continuous liquid-controlled closing action. Separate adjustment of both general and latching speeds. With or without Hold-Open. Soffit or surface jamb plate installation. State application and hand. For interior doors only.



HANDS OF DOORS AND CLOSERS

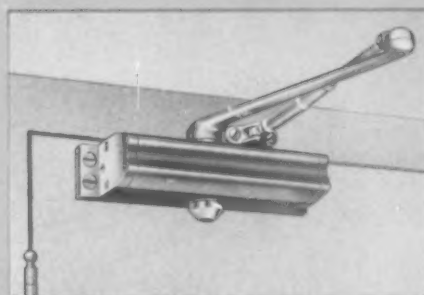
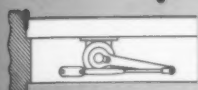
LH Door and Closer in
REGULAR APPLICATION
Closer same hand as door.



LH Door, RH Closer in
BRACKET APPLICATION
Closer opposite hand of door.



LH Door, LH Closer
PARALLEL ARM
APPLICATION
Closer same hand as door.



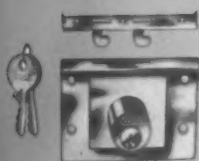
RACK AND PINION CLOSERS 82, 83, 84, 85

Surface applied closer requiring minimum headroom. Completely reversible. Full rack and pinion mechanism, two speed closing adjustment. Back check feature standard. Meets Federal Specifications FF-H-121c, Types 3001, 3004 & 3009. With or without Hold-Open feature at either 90° or full 180°. Also available in Fusible Link, Hold-Open. Applied to door, brackets or top jamb.

CABINET LOCKS

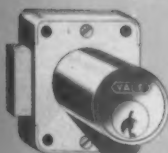
No. 5521 CHEST OR DESK LOCK

Half mortise for 3/4" or 7/8" wood or metal. All brass. 3" x 2 1/4" x 19/32". Four pin-tumblers. Key locked double link. Two No. 10 1/2 keys.



No. 511 & 511S WARDROBE OR LOCKER LOCK

Surface application for 3/4" or 1 1/8" wood or metal doors, either hand. All brass. 1 1/2" x 2" x 11/32". Four pin-tumblers. Two No. 9 1/2 keys for 3/4" door, two No. 8 keys for 1 1/8" door. Key locked dead bolt. No. 511S, spring bolt, not reversible.



No. L3368 & L3378 COMBINATION LOCKER LOCK

Surface application for metal doors to 3/16". Die-cast black and white dial, steel case, brass bolt. Projects 15/16" outside, 23/32" inside. 1 1/4" x 2 1/8". 3 number combination dial. Dead bolt. No. L3378 with two No. 9291 control keys.



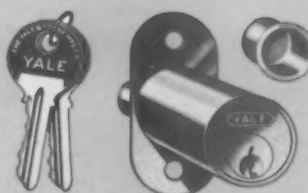
No. L3369 & L3379 COMBINATION LOCKER LOCK

For compartment or box lockers; doors to 3/16" thick. Spring-bolt type locks; lock automatically on closing of door. 3 number combination dial; No. L3379 with two No. 9291 control keys.



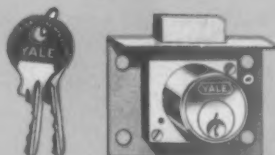
No. 529 SHOW CASE LOCK

Surface application for overlapping wood sliding doors. 1 1/4" or 1 1/8" nose. All brass. 2 1/4" x 1 1/4" plate. Five pin tumblers. Dead bolt. Two No. 8 keys.



No. 5591 & 5591S DRAWER AND CUPBOARD 3-WAY LOCK

Half mortise for 7/8", 1 1/8", 1 3/8" wood or metal doors, drawers, cupboards of either hand. Cylinder rotates to any of 3 positions. All brass. 1 1/2" x 2-1/32" x 3/8". Four pin-tumblers. No. 5591, key locked dead bolt. Two No. 10 1/2 keys. No. 5591S, spring bolt.



MULTI-PURPOSE COMBINATION PADLOCKS



No. 515
Dial Operation
Only



No. 518
Dial and Key
Operation

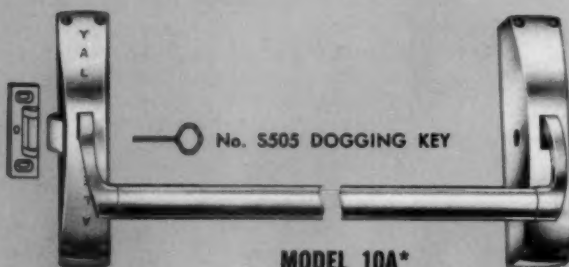
PANIC EXIT DEVICES

INSIDE ONLY

MODEL Nos. 10A, 10R and 10RD

Universal

For doors of either hand, in rim application. Operated from inside at all times by crossbar. Push-pull operation provided by dogging feature (both cases).



No. S505 DOGGING KEY

MODEL 10A*

LATERAL LATCHING,
HINGED TYPE BOLT, $\frac{3}{4}$ " THROW.

For single doors or double doors with mullion or special strikes.

Types

- 10A — Exit only.
- 10AC — Cylinder outside or cylinder and thumb piece.
- 10AK — Key-in-Knob trim.
- 10AP — Lever pull outside, with cylinder.



No. S505 DOGGING KEY

MODELS 10R and 10RD*

VERTICAL BOLT LATCHING.

- No. 10R — HINGED LATCH BOLT TOP AND BOTTOM.
- No. 10RD — HINGED LATCH BOLT AT TOP, DEAD BOLT AT BOTTOM.

Latch door at top and bottom, providing maximum security. Bolts operate independently.

For use on single or pairs of doors without mullion. May be used with any outside trim.

Automatic trigger keeps bolts retracted when door is open. Releases automatically when door is closed.

Rim sill strike furnished for use when Yale threshold is not to be used as bottom latch strike.

*All types can be supplied "knocked down" for stock. To order, suffix "KD" to list number. Suitable for doors of either hand, 42" x 7' x $1\frac{3}{8}$ " to $2\frac{3}{4}$ " thick. Easy to assemble and apply. Supplied in polished brass, dull bronze, dull chrome or dead black.



OUTSIDE TRIM



No. PM500 AND
No. PM500R MODERN
ESCUTCHEON WITH
STRAIGHT GRIP
SIZE — $13\frac{1}{2}$ " x $1\frac{3}{4}$ "
PROJECTION — $2\frac{1}{2}$ "
FINISH — BY22, DJ,
DY10 and
LY43



No. PM800 AND
No. PM800R MODERN
SECTIONAL TRIM
SIZE — $12\frac{1}{2}$ " x $1\frac{3}{4}$ "
PROJECTION — $2\frac{1}{2}$ "
FINISH — BY22, DJ,
DY10 and
LY43
PM810 and PM810R
same as above but
with offset grip.



No. PV500L AND
No. PV500LR MODERN
FORM GRIP WITH
LONG THUMB PIECE
SIZE — $11\frac{1}{4}$ " x $1\frac{3}{4}$ "
PROJECTION — $2\frac{3}{4}$ "
FINISH — BY22, DY10
and LY43



No. PM510 AND
No. PM510R MODERN
ESCUTCHEON WITH
OFFSET GRIP
SIZE — $13\frac{1}{2}$ " x $1\frac{3}{4}$ "
PROJECTION — $2\frac{1}{4}$ "
FINISH — BY22, DY10
and LY43



No. P0500 AND
No. P0500R GOTHIC
ESCUTCHEON WITH
GRIP AND THUMB PIECE
SIZE — $12\frac{3}{4}$ " x 3"
PROJECTION — $2\frac{3}{8}$ "
FINISH — BY22



No. P0601 AND
No. P0601R GOTHIC
ESCUTCHEON WITH
LEVER PULL
SIZE — $12\frac{3}{4}$ " x 3"
PROJECTION — $2\frac{3}{8}$ "
FINISH — BY22



No. PC810 AND
No. PC810R COLONIAL
SECTIONAL HANDLE
WITH GRIP
SIZE — $11\frac{7}{8}$ " x $1\frac{3}{4}$ "
PROJECTION — $2\frac{1}{2}$ "
FINISH — AZ10



No. PC500 AND
No. PC500R COLONIAL
SECTIONAL
HANDLE WITH GRIP
SIZE — $12\frac{3}{4}$ " x $1\frac{3}{4}$ "
PROJECTION — $2\frac{3}{8}$ "
FINISH — AZ10



No. PW601 AND
No. PW601R MODERN
ESCUTCHEON WITH
LEVER PULL
SIZE — $8\frac{1}{2}$ " x $1\frac{3}{4}$ "
PROJECTION — $2\frac{1}{4}$ "
FINISH — BY22, DY10
and LY43

**KEY-IN-KNOB
TRIM**



Any 5400 Series knob
and rose may be used.
PROJECTION — $2\frac{1}{8}$ " maximum.
FINISH — BY22, DJ on LF design
only, DY10, or LY43
where available in 5400
Series.

NOTE:

Above trims are universal and will accommodate door thicknesses ranging from $1\frac{3}{8}$ " to $2\frac{3}{4}$ ". Nos. PM500, PM510, PM800, PC500 and PC810 can be furnished without cylinder and without thumb piece.

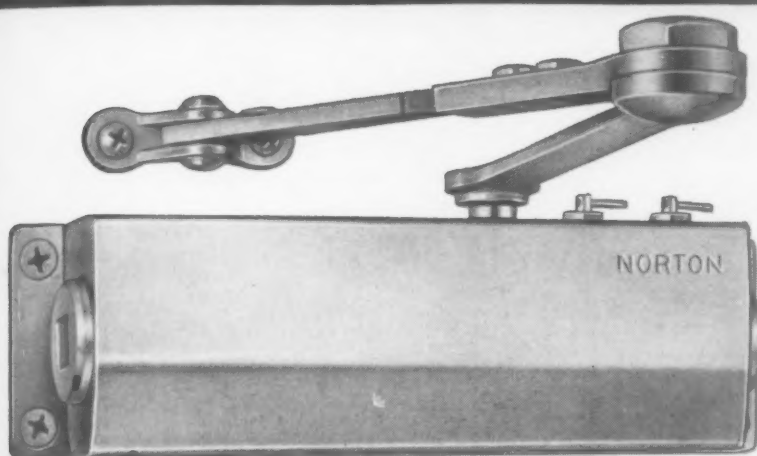
YALE & TOWNE

The Yale & Towne Manufacturing Company
Yale Lock and Hardware Division
White Plains, New York

NORTON DOOR CLOSERS

Dept. ASU-58, Berrien Springs, Michigan

Announcing 2 More "Firsts" for NORTON DOOR CLOSERS!

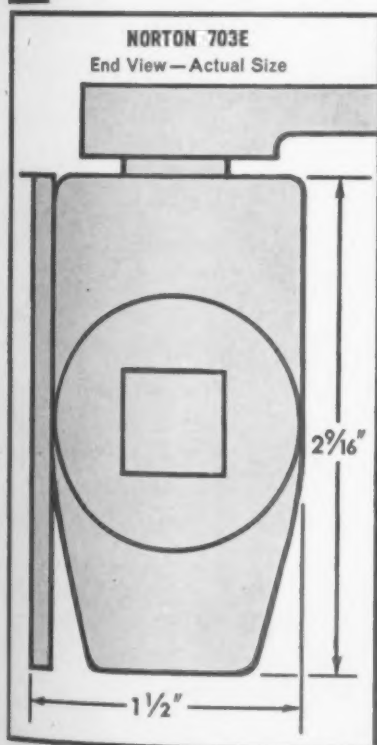
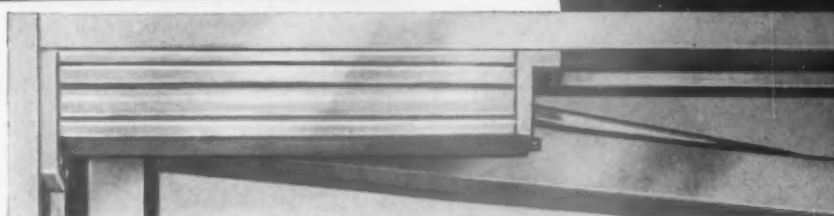


Norton 703E

Surface-mounted type...
First door closer ever made
with extruded aluminum
alloy shell.

Norton 750

Revolutionary corner de-
sign with concealed arms
and extruded aluminum
alloy shell.



Ultra-Modern in clean-lined functional design...Traditional in ruggedness
of construction...full rack and pinion dependability of operation.

After years of research to perfect suitable alloys and designs, Norton now offers the very first door closers which are not cast iron...not die cast or sand cast but *extruded from tough aluminum alloy* of such density that leakage through the shell is eliminated.

Utilizing this advance are two brand new Norton models specifically designed to complement the structural simplicity of modern doors...engineered to serve indefinitely with the efficiency, low maintenance and durability typical of all Norton Door Closers.

NORTON 703E: Surface mounted type, can be used on either side of door...only 1 1/2" projection...can be finished to match hardware...up to 180° opening, trim permitting.

NORTON 750: Cornertype of unique design for outside doors...arms completely concealed when door is closed...blends unobtrusively with latest aluminum frame doors.

But, not all advantages of these newest Norton Closers can be listed here. Write today for new data sheets just off the press giving full description and specifications.

NORTON[®] DOOR CLOSERS

Dept. ASU-58 • Berrien Springs, Michigan

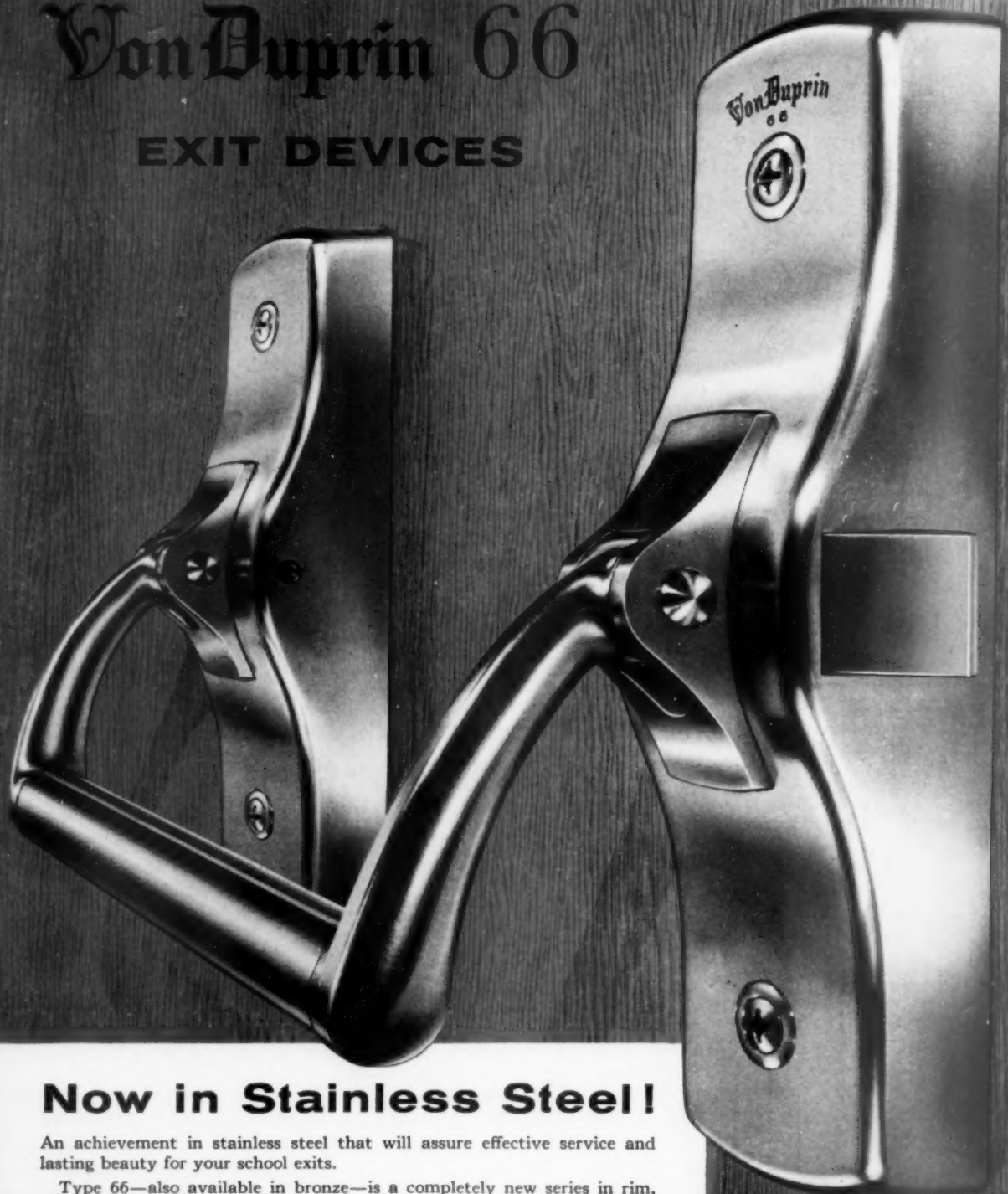
VONNEGUT HARDWARE CO.

Von Duprin Division

Indianapolis, Indiana

Von Duprin 66

EXIT DEVICES



Now in Stainless Steel!

An achievement in stainless steel that will assure effective service and lasting beauty for your school exits.

Type 66—also available in bronze—is a completely new series in rim, mortise lock and vertical rod models, and features a smart new line of matching outside trims.



For the finest expression of "the safe way out!," ask your architect or hardware consultant for full details on the Von Duprin 66. Or write direct for your copy of Bulletin 581.

CORBIN WOOD PRODUCTS DIVISION

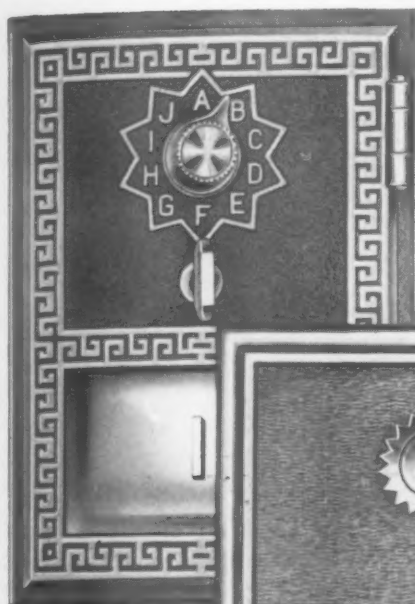
The American Hardware Corporation, Hornell, New York

Manufacturers of Letter Boxes, Mail Handling and Collating Equipment, and related wood products.

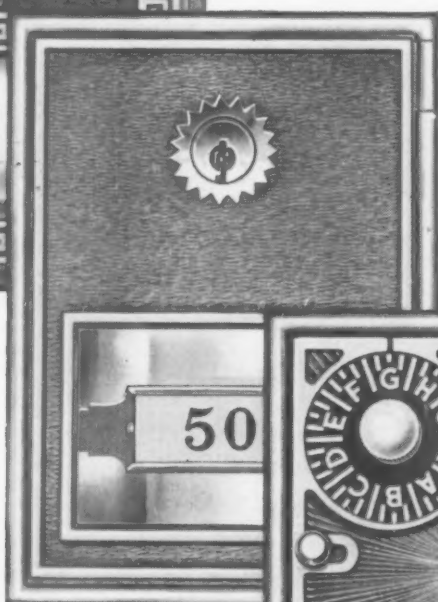
LETTER BOXES

KEY or DIAL OPERATED

For lasting security and user convenience specify CORBIN Letter Boxes. They give you the same sturdy construction that qualifies them for post office use. The only difference is appearance. You get a richer, and more distinctively designed exterior. Assembled in complete sections ready for fast installation and service.



No. 1



No. 50

No. 1 Standard Single-Dial Type. Made of sturdy cast bronze, finished in statuary or satin chrome. Manufactured in 4 sizes.

No. 50 Key-Lock Type. Cast bronze construction, statuary or satin chrome finish. CORBIN pin-tumbler lock assures smooth key action. Can be set to keying system of building for extra convenience. Manufactured in 4 sizes.



No. P85

No. P85 "THE PREMIER", Double-Dial Type. The finest quality letter box. Bold-faced, easily read dials. Combinations can be easily changed and are different on each installation. This type box provides maximum security and has more combinations than any other dial-operated box.

NEW!

No. 150 "THE IMPERIAL", Key-Lock Type. Emphasizes new design simplicity to complement modern building decor. Satin chrome finish. Hinges flush with face of door. Lock can be set to your present key system. In 3 sizes.



No. 150



Send for
catalog
WP27

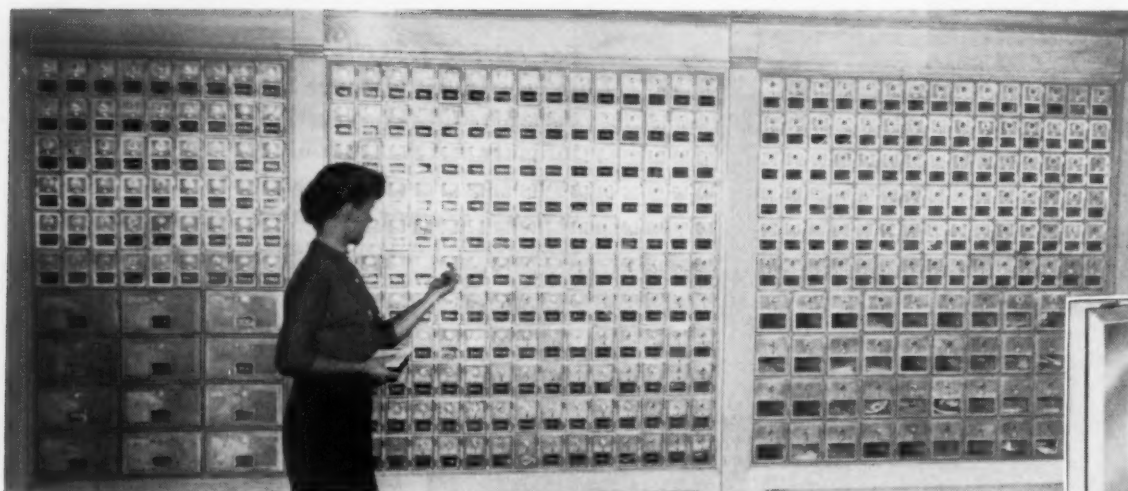
CORBIN Wood Products Division
Dept. AD
The American Hardware Corporation
Hornell, New York



CUTLER MAIL CHUTE COMPANY

76 Anderson Avenue, Rochester 7, New York

SOLVE *mail handling problems*
with **Cutler** *equipment*

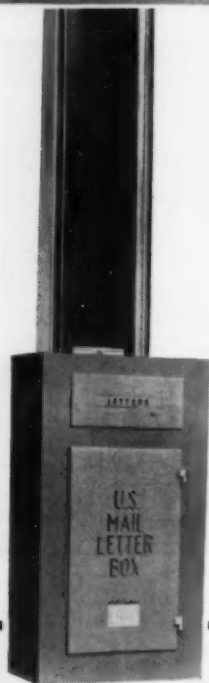


Federal Lock-Type Letter Boxes are in use in schools, colleges, institutions everywhere. Made in four compatible sizes with either combination or key lock. (Right) New Futura Style is striking, modern design. (Left) Cutler Mail Chutes and Mail Boxes are recognized as the finest available for efficiency, security, modern styling.



Mail handling systems by Cutler — designed to meet your specific requirements — will save time and money, and increase your mail security.

Cutler service is complete and all-inclusive, with Cutler's vast experience available to help you on any problem. For information write for Cutler catalogs and specification information. There is an export company representative near you.



Cutler mail chute company

76 Anderson Avenue / Rochester 7, New York
 a subsidiary of The Federal Equipment Co. / Carlisle, Pa.

LAKE SHORE MARKERS, INC.

660 West 19th St., P. O. Box 59, Erie, Pa. Cable: LASHMAR

Designers & Mfrs. of Stock and Custom Name Plates—Signs—Crosses—Plaques and Letters
Phone: Collect Erie 4-0189 for nearest representative or quotation.

ENDURING BEAUTY — PROVEN IN EXPERIENCE! Specify Lake Shore for Name Plates, Plaques and Letters



LIFETIME ALUMINUM PLAQUES
with matching 3-D building letters
MODERN—ATTRACTIVE—PERMANENT



5 MOST POPULAR LETTER STYLES ALUMINUM STOCK

FUTURA NO. 112



HEIGHT	AVE. WIDTH	WIDTH OF STROKE	DEPTH OR THICKNESS
2"	1 1/4"	3/8"	1/2"
3"	2 1/4"	3/8"	3/4"
4"	3 1/4"	13/16"	3/4"
5"	4 1/4"	1 1/4"	3/4"
6"	4 7/8"	1 1/4"	1"
8"	6 1/2"	1 1/4"	1 1/4"
10"	8 1/4"	2 1/4"	1 1/2"
12"	9 3/4"	2 1/2"	1 3/4"
13"	12"	3 3/4"	2 1/4"
18"	14 3/4"	3 1/4"	2 1/2"
20"	16 1/2"	4 1/4"	3"
24"	19 1/2"	5 1/4"	3"

KABEL NO. 113



2"	1 1/2"	1/2"	3/4"
3"	2"	1/2"	1"
4"	2 3/4"	1 1/4"	1 1/4"
5"	3 1/2"	1 3/4"	1 1/2"
6"	4"	1 3/4"	1 1/2"
8"	5"	1 1/4"	1 3/4"
10"	7"	1 3/4"	1 1/2"
12"	8"	1 1/4"	3/4"
13"	10"	2"	3/4"
18"	12"	2 1/4"	1"
20"	13"	2 3/4"	1 1/4"

GOTHIC NO. 114



6"	4"	1 1/4"	3/4"
9"	6"	1 3/4"	1"
12"	8"	2 1/4"	1 1/4"
13"	10"	2 3/4"	1 3/4"
18"	12"	3 1/4"	1 3/4"
24"	16"	4 3/4"	1 3/4"

RIBBON NO. 111



2"	1 1/4"	1/4"	3/4"
3"	2"	5/16"	1"
4"	2 3/4"	3/8"	1 1/4"
5"	3 1/2"	7/16"	1 3/4"
6"	4"	7/16"	1 1/2"
8"	5"	1 1/2"	1 3/4"
10"	7"	1 1/2"	2"
12"	8"	1 1/2"	2 1/4"
13"	10"	3/4"	2 1/2"
15"	10"	3/4"	3"
18"	12"	3/4"	3"

BROADWAY NO. 118



3"	2"	1 1/4" & 5/8"	5/8"
6"	5"	1 3/4" & 5/8"	3/4"
8"	7"	2 1/4" & 1 1/4"	3/4"
10"	8"	2 3/4" & 1"	1 1/4"
12"	10"	3 1/4" & 1 1/4"	1 1/4"
14"	12"	4 1/4" & 2 1/4"	2"
18"	15"	5" & 2"	2 1/4"

Complete counselling and designing services
Custom built by skilled craftsmen
Write for Free Catalog #A8511
of Aluminum & Bronze Plaques

aluminum castings provide real economy

Backed by nearly half a century of production and research experience Lake Shore Markers are able to provide Lifetime Aluminum castings at real savings over any other type. This modern metal, cast in the proper alloy for the specific purpose, will render years of service without polishing or refurbishing in any way. Simply wash in the event of the collection of soot or other airborne dust which might cling in a sheltered area out doors. Indoors, of course, no attention is needed. An important feature of Lake Shore aluminum plaques is the reduced weight to approximately 1/3 the weight of other metals. This is important in shipping costs, production costs, handling and installation. Each alloy selected for lifetime service. In addition, the finest, most enduring vinyl coatings are used in the proper color combinations and in clear protective coatings. Vinyl coatings have qualities similar to those found in underground cable insulation, gasoline hose, and other products where complete freedom from acids and alkalis is required. Detailed information will be furnished on request. Write for complete catalog!

specifications on cast aluminum letters

Cast aluminum letters are to be as manufactured by Lake Shore Markers, Inc., P. O. Box 59, Erie, Penna., or equal.

Letters shall be of Style....., Number.....

Height....., Stroke....., Average width.....

Depth (return)

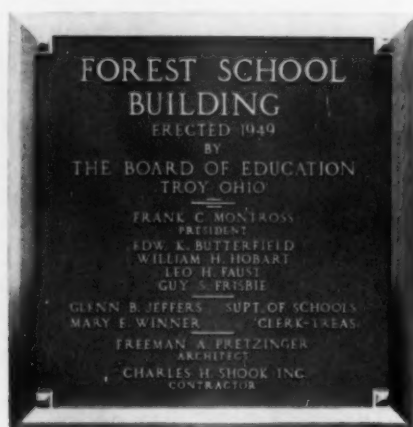
Letters shall be sand cast of virgin alloy suitable for approved vinyl-vincynite finish. Letters shall be of rigid construction. Letter faces are to be ground smooth and buffed to satin finish and weatherproof vinyl clear coated. Letters are to be installed on surface, requiringmethod of fastening.

MEIERJOHAN-WENGLER

Metalcraftsmen

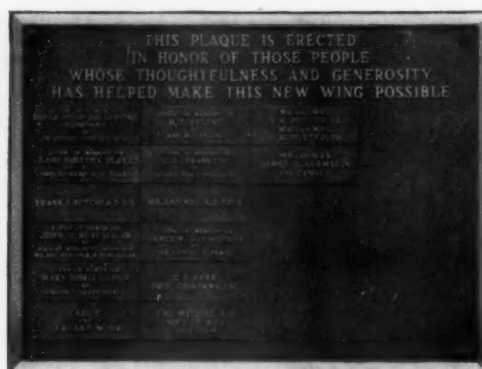
1102 W. Ninth St., Cincinnati 3, Ohio

MEMORIALS, PORTRAIT TABLETS, HONOR ROLLS, PLAQUES, SIGNS



Tablets of every description produced to order—in any size—plain or elaborate borders. All lettering is carefully hand-chased—all designs and ornamentation skillfully hand-tooled and superbly finished. Tell us what you have in mind and we'll gladly submit ideas and estimates.

Handcrafted in BRONZE, ALUMINUM NICKEL-SILVER



"Character, Distinction and Fidelity" characterize M.W. portraits in bronze. Our sculptors work from a photograph of the subject in producing the model and we submit the artist's model or photo of it for approval before final reproduction in bronze.

CUSTOM LIGHTING FIXTURES



IN

BRONZE, STAIN- LESS STEEL, ALUMINUM, WROUGHT IRON

MW distinctive and attractive designs are produced in any size in accordance with your sketches or to conform to architect's blue-prints and specifications.



ARCHITECTURAL METAL LETTERS in BRONZE, ALUMINUM, NICKEL- SILVER, STAINLESS STEEL

MW Exterior Building Letters are available in a wide variety of styles—sizes—fastenings. Details are carefully adhered to, whether the letters are made to our own details or to the customer's special design. All letters are hand-finished by master metalcraftsmen.

Catalogs and Estimates sent on request. No order too large, none too small for our personal attention.

MEIERJOHAN-WENGLER

Metalcraftsmen with over 1/3 Century of Experience

THE MICHAELS ART BRONZE CO., INC.

P.O. Box 668-AS, Covington, Ky.

PRODUCTS

Bronze and Aluminum Tablets, Signs, Honor Rolls, Name Plates • Building Directories • Welded Doors • Curtain Walls • Spandrels • Louvers • Reversible Windows • Stair

PRODUCTS

Railings • Architectural Metal • Astragals • Grilles and Wickets • "Time-Tight" Exhibit Cases • Metal Letters • Marquees • MI-CO Manual Parking Meters



MICHAELS BRONZE AND ALUMINUM PLAQUES

Michaels Bronze and Aluminum tablets can be made in any practical shape or size, in standard designs or modeled to your specifications. Just tell us the size, the purpose of the tablet, and the wording. We'll be glad to submit sketches and prices. Tablets are used to commemorate the construction of buildings; perpetuate the memory of public servants and benefactors; honor those who served during the wars, and many other purposes. Also available are name plates, with or without titles, and donor plaques. Michaels tablets are made of the finest materials, with workmanship of the highest quality. Write for literature which contains complete information.



Michaels

"Time-Tight" Exhibit Cases

the best medium for displaying all classes of exhibits

Michaels "Time-Tight" Cases are made in many types . . . table, aisle, corner, suspended and recessed cases in standard sizes or custom-built to

your specifications. Frames are made of extruded bronze or aluminum. Innerlocking frames, exclusive with Michaels, mitered intersections and other structural features assure protection against ingress of dust and vermin, as well as security against handling and theft. Michaels cases are used extensively by educational institutions, museums, art galleries, libraries and others. Write for catalog containing illustrations of various styles, construction details and other information.



THE MICHAELS ART BRONZE CO., INC.

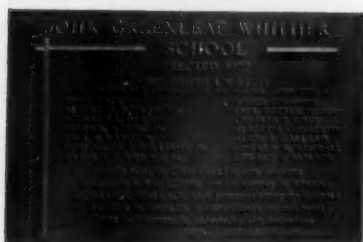
P. O. BOX 668—AS, COVINGTON, KY.

Manufacturers since 1886 of many products in Bronze, Aluminum and Stainless Steel

AMERICAN SCHOOL AND UNIVERSITY—1958-59

McGANN BRONZE INCORPORATED

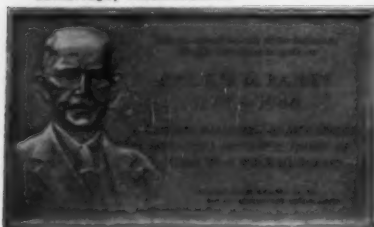
Village Street, Somerville, Massachusetts



30" x 20" Committee Tablet
Haverhill, Massachusetts



4' 6" Diameter — City of Cambridge Seal
On exterior of High and Latin School
Cambridge, Massachusetts



Bronze Bas-Relief
Col. E. W. M. Bailey
Amesbury, Massachusetts



World War II and Korean
War Memorial, Memorial
Junior High School Lab-
by, Beverly, Massachusetts

McGANN BRONZE has recently inaugurated a special service for school building authorities. Our skilled draftsmen will design full-size plaques or tablets with the inscription and names you provide and submit them for your approval . . . without obligation.

Nearly a century of craftsmanship is behind each of McGann Bronze creations. Each of our designs is cast in our own foundry, carefully hand-tooled by experts and burnished to perfection. You can find shining examples of our work in cities and towns throughout the country. Your building will be more beautiful with an enduring bronze . . . by McGann.

C. W. Marsh
SUPT OF SCHOOLS

Signature stamps for school officials. Also standard and made-to-order rubber stamps to fill all your requirements.



Village Street, Somerville, Massachusetts

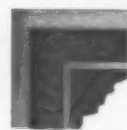
A FEW SAMPLES OF BORDERS AND LETTERS AVAILABLE



Inside Ogee



Trailing Ivy



Double Line



Single Line Outside Ogee



Modern Block



Lower Case Block



Gothic Ribbon



Broadway

C HEATING—PLUMBING—LIGHTING—ELECTRICAL

1. Heating, Ventilation

Herman Nelson Unit Ventilator Products,	C-1/Nel
American Air Filter Company, Inc.	C-1/Nes
John J. Nesbitt, Inc.	C-1/No
Norman Products Co.	C-1/Po
The Powers Regulator Co.	C-1/Vu
The Vulcan Radiator Company	C 301
Electromode, Division of Commercial Controls Corporation	C 303
The International Boiler Works Co.	C 302
Johnston Brothers, Inc.	C 304, 305
Lennox Industries, Inc.	C 306
The Nash Engineering Company	C 307
The Rittling Corporation	C 308
The H. B. Smith Company, Inc.	C 309
Spencer Heater, Lycoming Division, Avco Manufacturing Corporation	C 310
The Swartwout Company	C 311
Titusville Iron Works, Division of Struthers Wells Corporation	

2. Incinerators

Joseph Coder Incinerators	C 312
Morse Boulger Destructor Co.	C 313

3. Plumbing

Century Brass Works, Inc.	C-3/Ce
Cordley and Hayes	C 317
Crane Co.	C 314, 315
Grinnell Company	C 316
Symmons Engineering Company	C 318
The Halsey W. Taylor Co.	C 319

4. Washroom Equipment

American Dryer Corp.	C 320
The Chicago Hardware Foundry Company	C 321

5. Lighting

Curtis Lighting Incorporated	C-5/Cu
Sunbeam Lighting Company	C-5/Su
The Edwin F. Guth Company	C 323
Holophane Company, Inc.	C 324, 325

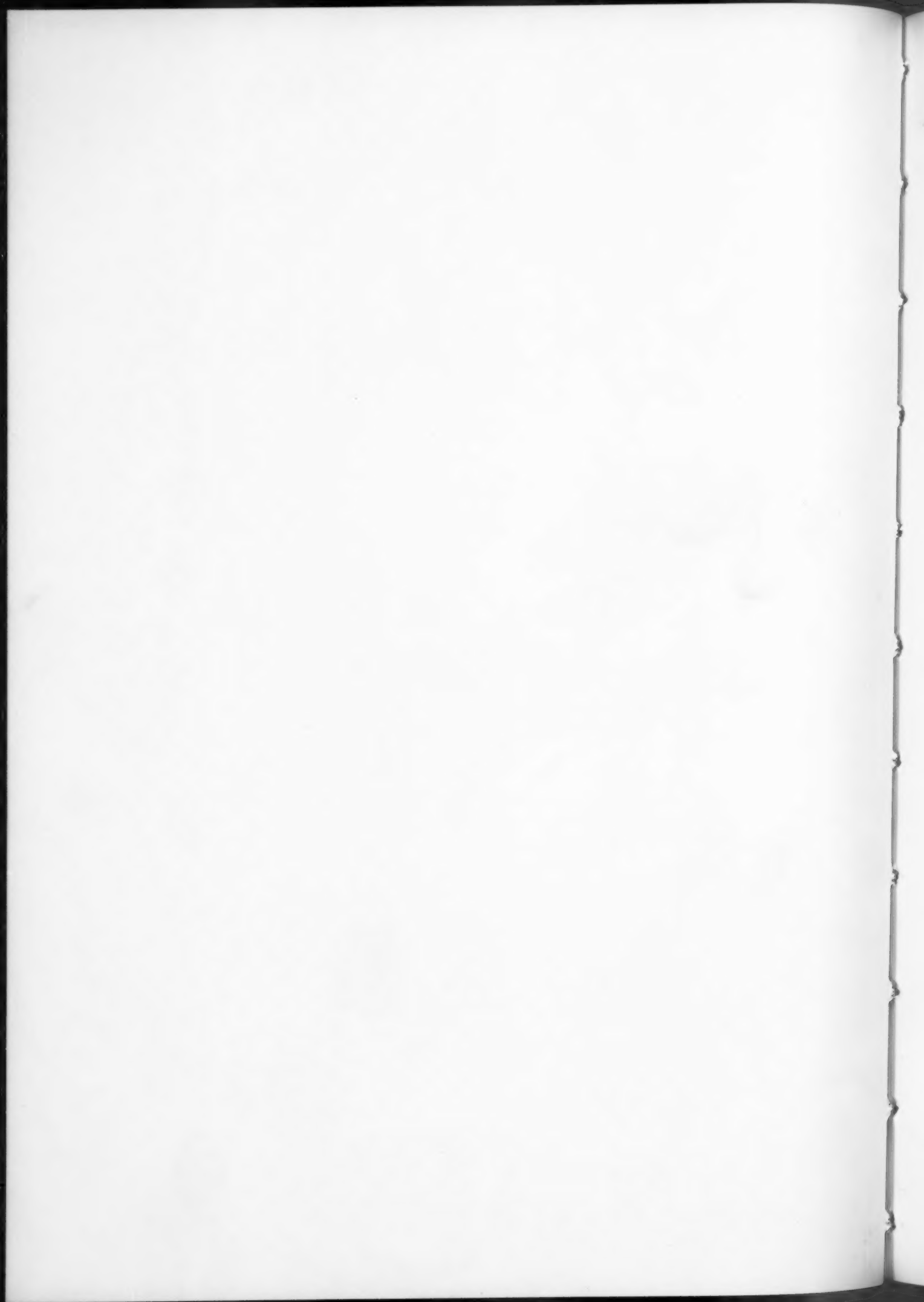
6. Electrical Equipment

Exide Industrial Division, The Electric Storage Battery Company	C 322
General Electric Company, Apparatus Sales Division	C 326
Graybar Electric Company, Inc.	C 327

7. Time Signaling and Intercommunication Systems

International Business Machines Corporation	C-7/IBM
Montgomery Manufacturing Co.	C 328

Note: Manufacturers represented with complete catalogs are listed in bold face.



Will The School You Are Planning Ever Need AIR CONDITIONING?



...the answer is
YES!

Here's a partial list of schools which are air conditioned now, or are ready for it anytime—with Herman Nelson unit ventilators

Pleasant Hill School Austin, Texas	Wm. S. Speed Building University of Louisville Louisville, Kentucky
St. Paul Evangelical Lutheran Church Dalton, Illinois	Elementary School Phoenix, Arizona
Davy Crockett School Phoenix, Arizona	Lodi High School Lodi, California
Wilmot School Wilmot, Wisconsin	McKinley School Bakersfield, California
Niles Township High School Skokie, Illinois	St. John the Baptist School Chico, California
South High School Bakersfield, California	St. Monica's Church & School Dallas, Texas
Morrilton Elementary School Morrilton, Arkansas	Southeastern College Hammond, Louisiana
Sierra Joint Union High School Aubrey, California	Trinity Episcopal Church Lawrence, Kansas
St. Paul's Lutheran Church Clyde, Ohio	Our Lady of Fatima Shrine South Bend, Indiana
Catholic Student Center Louisiana State University Baton Rouge, Louisiana	Sardis Presbyterian Church Charlotte, North Carolina
Immaculate Heart of Mary Parish Chicago, Illinois	St. Peter & Paul Parish Turkey Creek, Indiana
New Science Building Northeastern State College Tahlequah, Oklahoma	Belle Isle Elementary School Oklahoma City, Oklahoma
South Union Junior High School Fresno, California	Eunice Smith School Alton, Illinois
Mockingbird Road Elementary School Vero Beach, Florida	Holy Name Elementary School Cook, Indiana
Administration & Educational Building Buena Vista College Storm Lake, Iowa	University of Pennsylvania Philadelphia, Pennsylvania
St. Monica Parish Church Willows, California	Swarthmore College Swarthmore, Pennsylvania
Purdue University W. Lafayette, Indiana	Immaculate Heart of Mary Parish New Orleans, Louisiana
	St. Mary's Church Ft. Worth, Texas
	St. Patrick's Church Denison, Texas

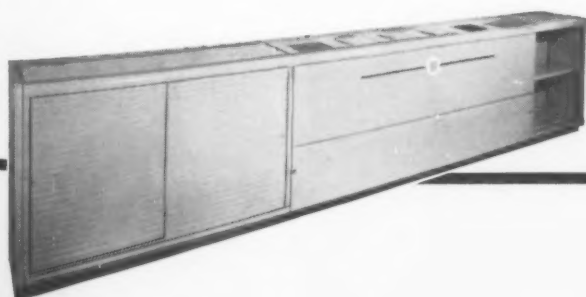
Already, more than
100 schools have
planned for it—by
installing HerNel-Cool II

Nearly every school would benefit from air conditioning as have offices, theaters, hospitals and homes. In fact, many new schools *are* air conditioned, or have prepared for it—by installing HerNel-Cool II unit ventilators. *This Herman Nelson product is the first unit ventilator to offer optional air conditioning, as well as heating, ventilating and natural cooling (with outside air).*

Already—less than a year after its introduction—it has been selected for use in more than 100 schools throughout the country. And no wonder!

These units can be installed now so that the school enjoys all the usual benefits of the famous Herman Nelson DRAFT|STOP system. Only the addition of a chiller in the boiler room is needed for complete hot weather air conditioning. This can be provided initially, or if it's not in the current school budget—at any future time.

Would you like more information? Just write to Herman Nelson Unit Ventilator Products, American Air Filter Company, Inc., Louisville 8, Kentucky.



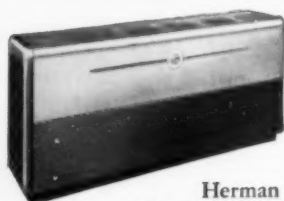
herman nelson

UNIT VENTILATOR PRODUCTS

System of Classroom Cooling, Heating and Ventilating

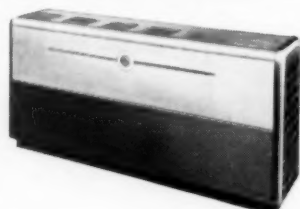
Any Fuel... Any Climate...

HERMAN NELSON UNIT VENTILATORS GIVE MORE CLASSROOM COMFORT PER DOLLAR



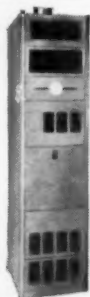
**HOT WATER
OR STEAM**

Herman Nelson Unit Ventilators with patented DRAFT|STOP control downdrafts without adding to the heat load, provide ideal classroom climates.



**AIR
CONDITIONING**

The HerNel-Cool unit provides mechanical cooling, heating, ventilating or natural cooling as required. Thoroughly tested in hot, humid climates.



GAS

New UNIVent Gas School Ventilator provides all the health and comfort features of the DRAFT|STOP system in a completely self-contained unit.



MILD CLIMATES

AMERVENT built especially for schools in mild climate areas, provides fresh air cooling, heating and ventilating within the nominal cost of heating alone.



ELECTRIC

New Electric Unit Ventilator in which an electric heating element replaces the hot water or steam coil provides all DRAFT|STOP comfort features.

Herman Nelson now offers a line from which you can select the ideal unit for meeting any school's requirements! The cooling, heating, ventilating system can be "tailored" to provide true classroom comfort in the most economical and most practical way.

VARIETY OF FUELS

In temperate or cold climates, the *Herman Nelson Unit Ventilator* operates with either *hot water, steam, gas or electricity*. The patented DRAFT|STOP system has given a new meaning to "classroom comfort" as it controls down drafts and automatically provides a constant supply of properly heated or cool fresh air.

AIR CONDITIONING

HerNel-Cool units offer an economical and practical solution to the increasingly important air conditioning problem. Most of the year they provide heat, ventilation or natural cooling (with outside air). Air conditioning can be provided at any time by simply adding a chiller to the system. The units switch automatically to mechanical cooling with chilled water circulating in the same piping that carries hot water during cold weather.

MILD CLIMATES

Schools in mild climates have an increased cooling and ventilating problem and a decreased heating problem. With Herman Nelson *AMERVENT* these schools can now enjoy all the essentials for classroom comfort—cooling, heating and ventilating—without paying for the excess heating capacity required in frigid climates.

* * *

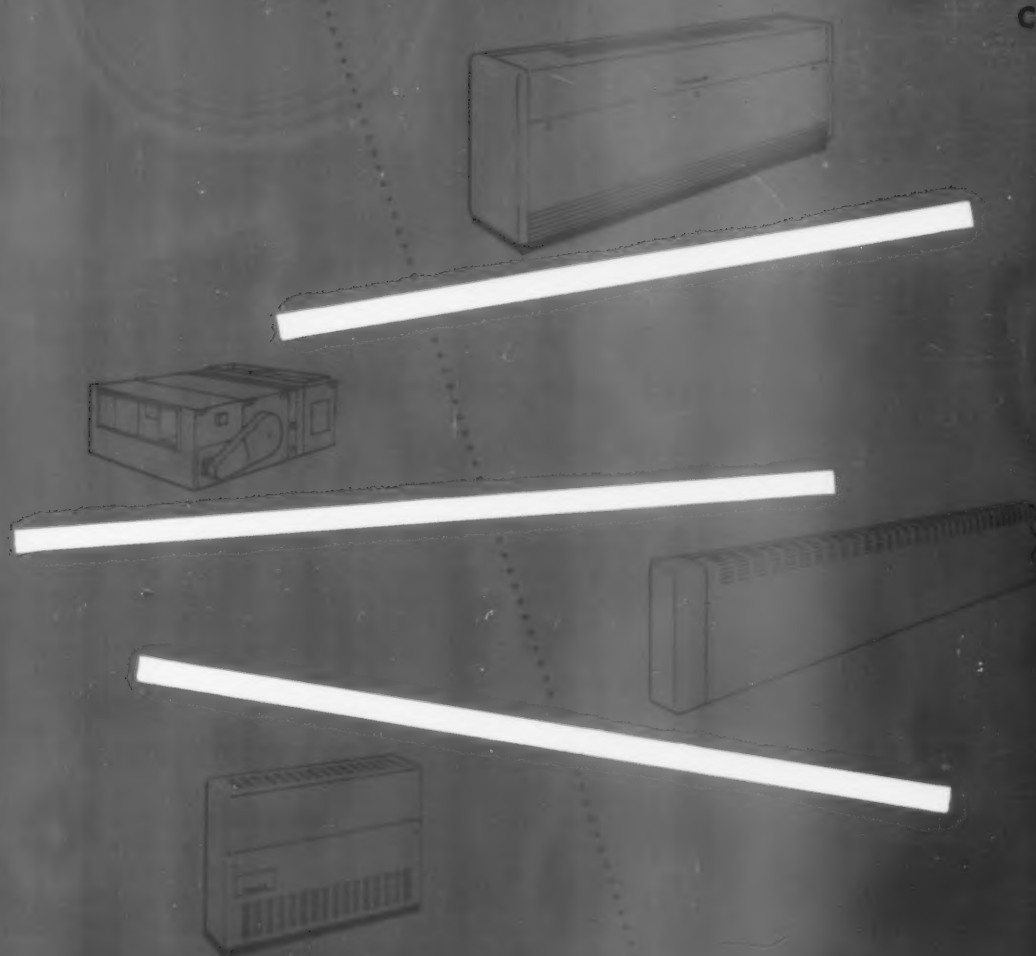
Flexibility will always be important to Herman Nelson—for there is no "one best" system to provide for heating, ventilating and cooling classrooms. The health and comfort of pupils and teachers come first. Climate area, design and structure of each school will indicate the most economical and practical system to achieve that ideal classroom atmosphere.

Would you like more information? Ask your Herman Nelson representative or write to Herman Nelson Products, American Air Filter Company, Inc., Louisville 8, Kentucky.

BETTER AIR IS OUR BUSINESS

AAF
herman nelson
UNIT VENTILATOR PRODUCTS

American Air Filter Company, Inc.
System of Classroom Cooling, Heating and Ventilating



Nesbitt

HEATING, VENTILATING AND
AIR CONDITIONING
FOR SCHOOLS AND COLLEGES

HOW CAN YOU ACHIEVE GREATER LEARNING EFFICIENCY
FOR TODAY'S STUDENTS . . .
FOR TOMORROW'S BIGGER ENROLLMENTS?

The true yield on the money you invest today in a heating, ventilating and cooling system is a classroom environment that permits *maximum learning efficiency* each day for every student wherever he or she sits.

Yet, only the comfortable student can *maintain* maximum learning efficiency. And comfort for every student can be achieved only with automatic control of heating, ventilating and cooling in *each* classroom, today . . . and later on when runaway enrollments will be taxing the capacity of the equipment you purchase today.

On the following pages, observe how Nesbitt has applied the lessons gained in more than 40 years of helping the nation's schools and colleges provide each student with an efficient learning environment.

There's a **Nesbitt** product

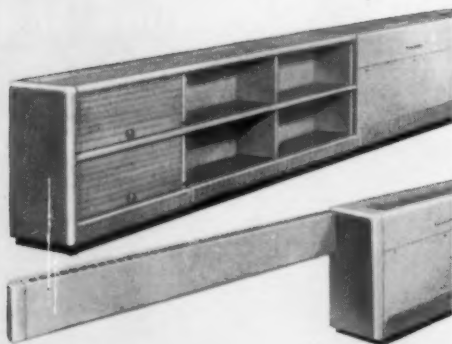
**for every schoolroom heating, ventilating
and air conditioning requirement!**

**FOR
CLASSROOMS**



SYNCRETIZER UNIT VENTILATOR

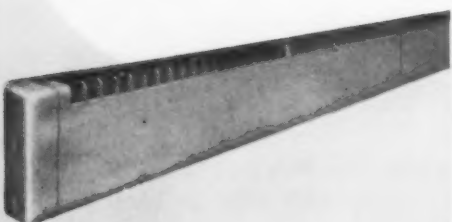
...automatically heats, cools and ventilates the classroom. Air volume stabilizers guard against cold winds blowing directly into the room, save on fuel—up to 50% in windy weather. Non-ferrous hot water or steam (Nesbitt trombone tube) radiators assure uniform air temperatures. Indoor-outdoor air mixture is automatically controlled. Fewer moving parts mean long, trouble-free operation. Position of radiator over fans prevents damage to fans, reduces danger of freezing, heats a greater volume of air at lower, quieter fan speeds. Damper is adjustable for any desired minimum quantity of outdoor air. Nesbitt motor and fan assembly permits easy removal, eliminates couplings, belts, drives, alignment and maintenance problems.



...with WIND-O-LINE RADIATION

Low-capacity fin and tube radiation for use along the full length of cold window walls. By warming floors and outside walls and by providing a rising blanket of heat, Wind-o-line protects students seated in the window zone against the chilling effects of window downdraft and the excessive loss of body heat to cold surfaces. Gravity heating maintains overnight temperatures without fan operation or separate controls and equipment. *The combination of the Syncretizer Unit Ventilator with Wind-o-line Radiation balances all "classroom weather" factors to achieve a fully protected learning environment for every student wherever he sits.*

**FOR
OFFICES, CHAPEL, INFIRMARY, DORMITORIES**



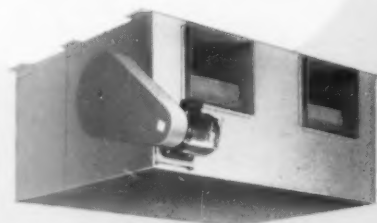
SILL-LINE RADIATION

... High capacity finned-tube radiation provides continuous warmth along extended window areas, overcomes downdraft, lessens body heat loss, maintains draft free floor-to-ceiling comfort. Corrugated fins add strength, efficiency. Sturdy wall-hung enclosures are internally braced, interlock top and bottom with solid back panel—ideal for spanning curtain wall mullions. Choice of six baked enamel colors. Sill-Line Radiation can also be concealed by Nesbitt Storage Cabinets. These practical steel cabinets are available for open or closed storage.

FOR INTERMITTENTLY OCCUPIED SPACES

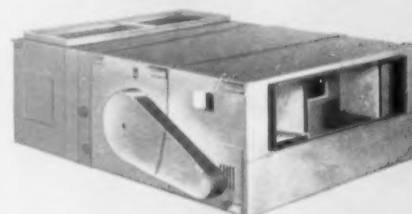
SERIES E EXHAUSTER

... is a blower fan unit for air clearance where low sound levels are essential, as in auditoriums, classrooms, labs, offices. Its wide capacity range makes it equally suitable for gymnasiums, shops, corridors or lavatories. Large-diameter centrifugal fans handle large volumes of air at low tip speeds. Motors are resilient mounted, sleeve bearing or ball bearing. A silencer plenum located on the room side of the fan section reduces audible sound 25% to 40%. Plenum interior and baffle surfaces are covered with 1" thick glass fiber sound absorbing material.



SERIES T THERMOVENT

... controls indoor "weather" in large areas that are intermittently but heavily occupied, such as assembly halls, auditoriums, gyms, etc. The Thermovent has the heating capacity to bring the space quickly to desired temperature and keep it there, plus large air volume for cooling. Hot water elements are multi-pass type for use with high temperature drop systems. Plenum chamber (Glass fiber lined) lets air expand; reduces the velocity and sound level. Insulated baffles provide extra sound absorption within the silencer. Quiet operation is assured by a resilient-mounted motor, isolated in the unit casing, that uses high-volume, low-speed, multi-blade fans.

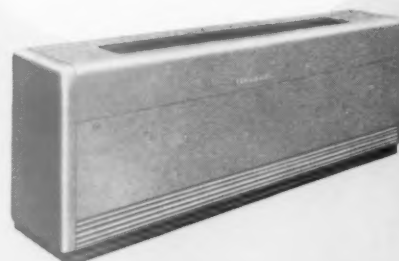


FOR YEAR-ROUND USE

Nesbitt has helped make possible the fullest use of school facilities by designing units that may be installed initially as a properly designed system for heating only, with mechanical cooling added at a future date by adding the necessary equipment in the boiler room.

THE YEAR-ROUND SYNCRETIZER

... Ideal for classrooms, lecture rooms and libraries, the Nesbitt Year-round Syncretizer combines winter functions of heating, ventilating and natural cooling with summer functions of ventilating, mechanical cooling and dehumidifying. Outstanding for quietness of operation, for its ability to maintain comfortable humidities in the classroom under all summer load conditions, and for ample heating and natural cooling capacities for winter operation. All units operate automatically and are suitable for use with pneumatic, electric, or electronic control systems. Low-speed, permanent split-capacitor type motor for lifetime performance.



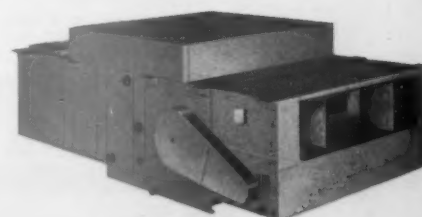
ROOMMATE AIR CONDITIONER

... is an attractive, quiet-operating, high capacity year-round air conditioning unit available in non-recessed, semi-recessed, fully recessed, universal and built-in models for floor, wall and ceiling applications in dormitory, chapel or infirmary. Modern, functional cabinets are die-formed of heavy-gauge, furniture steel with a special two-coat, corrosion-resistant enamel finish. Suitable for use with pneumatic, electric, electronic or manual control for installation in either new or existing buildings.



THE AudiCon AUDITORIUM AIR CONDITIONER

... is a year-round heating, ventilating and air conditioning unit designed especially for quiet operation in auditoriums and similar large assembly and administrative spaces. In cold weather it provides heating, ventilating and natural cooling. In warm weather it provides air conditioning and ventilation. At all times it delivers fresh, clean controlled air—quietly, automatically. Exclusive silencer plenum plus large slow-speed fans assure quiet operation. Sectionalized design permits installation in existing, as well as in new buildings.



Where to Buy Nesbitt

Heating, Ventilating and Air Conditioning Products

The following seventy-seven offices of John J. Nesbitt, Inc. (JJN) and American Blower Corporation (ABC) stand ready to assist you in the selection and application of Nesbitt Classroom Heating, Ventilating and Air Conditioning Equipment for your school. In Canada, Nesbitt Unit Ventilator products are available through fourteen offices of American Standard Products (Canada), Ltd.

Akron 8, Ohio (ABC) 707 United Bldg., 9 S. Main St. Hemlock 4-3181	Indianapolis 4, Ind. (ABC) 1019 Archts. & Builders Bldg. Melrose 5-4521	San Francisco 3, Calif. (ABC) 821 Market St. Sutter 1-1024-5
Albany, N. Y. (JJN) 773 New Loudon Rd., Latham State 5-8516	Jackson 4, Miss. (ABC) 2757 Pinedale St. 5-5814	Scranton, Pa. (JJN) 1504 Adams Avenue, Dunmore 9 Diamond 3-7318
Albuquerque, N. M. (ABC) 142 Monroe, N.E. Amherst 8-1471	Jacksonville 7, Fla. (ABC) #203, 1201 San Marco Blvd. Exbrook 8-9737	Seattle 9, Wash. (ABC) 1305 Republican Street Seneca 4328-9
Amarillo, Texas (ABC) 414 Fisk Bldg. Drake 2-8634	Johnstown, Pa. (JJN) 206 Fisher Building Johnstown 9-4108	South Bend 1, Ind. (ABC) 402 Lafayette Building Central 3-9305
Allentown, Pa. (JJN) 1206 E. Congress Street Hemlock 2-6205	Kansas City 5, Mo. (ABC) 330 Dwight Building Victor 2-7181-2	Springfield, Mass. (JJN) 1140 Springfield St., Feeding Hills Republic 2-1878
Atlanta 5, Ga. (ABC) 3224 Peachtree Rd., N.E. Cedar 7-8604	Knoxville 16, Tenn. (ABC) 1301 Hannah Avenue, N.W. 4-1668	Syracuse, New York (JJN) 510 Hills Building Harrison 2-0471
Baltimore, Md. (JJN) 33 East 21st Street Belmont 5-8595	Little Rock, Ark. (ABC) 915 West Second Street Franklin 6-1068	Tampa 1, Fla. (ABC) P. O. Box 1221, 509 Twiggs St. 2-2506
Billings, Mont. (ABC) 3 M & R Bldg., 1002 Division St. 2-0800	Los Angeles 17, Calif. (ABC) 506 Architects Building Michigan 3871	Toledo 13, Ohio (ABC) Rm. 201, 2446 Sylvania Ave. Greenwood 2-7297
Birmingham 5, Ala. (ABC) 1206 South 20th St. Alpine 2-2383	Louisville 2, Ky. (ABC) 1622 Heyburn Building Juniper 4-7109	Tulsa 3, Okla. (ABC) 421 Wright Bldg. Luther 4-3366
Boston, Mass. (JJN) 70 Jaconnet St., Newton Highlands 61 Lasell 7-7100	Memphis 3, Tenn. (ABC) 668 Main Street, South Jackson 6-0339	Washington 14, D. C. (ABC) 7720 Wisconsin Avenue Oliver 4-5223
Bryn Mawr, Pa. (JJN) 765 West Lancaster Avenue Lawrence 5-8585	Mexico City, Mex. (ABC) San Juan deLetran #37, Apt. 403 35-3150	West Hartford 7, Conn. (ABC) P. O. Box 165, W. Hartford 7. Adams 2-1414
Buffalo 16, N. Y. (JJN) 1441 Hertel Avenue Export 2200	Miami 34, Fla. (ABC) 220 Miracle Mile Suite 241 Highland 8-2297	Wichita 7, Kan. (ABC) 211 Davidson Bldg. Amherst 7-9943
Charleston 23, W. Va. (ABC) 1029 Virginia St., E. Dickens 6-1331	Milwaukee 3, Wis. (ABC) 231 West Wisconsin Ave. Broadway 1-6691	Wilmington, Del. (JJN) 601 Delaware Avenue Olympia 8-6569
Charlotte 4, N. C. (ABC) 1314 E. 4th St. Edison 2-3148	Minneapolis 3, Minn. (ABC) 402 Essex Bldg., 84 S. 10th St. Federal 9-7215	Youngstown 7, Ohio (ABC) 208 Wagner Bldg. Sterling 8-6525
Chicago 1, Ill. (ABC) 228 North LaSalle Street Financial 6-2531-7	Mobile, Ala. (ABC) 461 Government Street Hemlock 3-6488	
Cincinnati 2, Ohio (ABC) 1005-6 American Building Parkway 1-8160	Nashville 4, Tenn. (ABC) 1805 Hayes Street Alpine 5-5615	
Cleveland 15, Ohio (ABC) 1010 Euclid Avenue Main 1-6846	New Orleans 12, La. (ABC) Rm. 305 Jahncke Bldg. Tulane 7105	CANADA
Columbus, Ohio (JJN) 101 North High St., Rm. 301 Capitol 4-7559	New York 7, N. Y. (JJN) 11 Park Place Barclay 7-0260	Calgary, Alta. 1510 A First Street, W. 27178 & 27481
Dallas 2, Texas (ABC) 1213 Texas Bank Building Riverside 7-1879	Oklahoma City 2, Okla. (ABC) 703 Leonhardt Bldg. Central 2-1688	Edmonton, Alta. 10249 104th Street 46155
Dayton 19, Ohio (JJN) 2600 Far Hills Avenue Axminster 9-6717	Omaha 2, Nebraska (ABC) 305 Patterson Building Atlantic 7464	Halifax, N. S. 4 Atlantic Street 2-4473
Denver 4, Colo. (ABC) 1304 Cherokee Street Alpine 5-5011	Peoria 1, Ill. (ABC) 517 Comm'l. Nat'l. Bank Bldg. 4-1041	Hamilton, Ont. Lister Block, 42 James Street, N. Jackson 7-2922
Des Moines 9, Iowa (ABC) 404A Shops Bldg. Cherry 4-2711	Philadelphia 36, Pa. (JJN) State Rd. & Rhawn St. Devonshire 2-2400	Kirkland Lake, Ont. P. O. Drawer 518 1440
Detroit 2, Mich. (ABC) 632 Fisher Building Trinity 2-4300	Phoenix, Ariz. (ABC) Central Madison Building Alpine 2-4641	Montreal 26, Que. 300 Lafleur Bldg., 3600 Barclay Regent 1-2783
Duluth 2, Minn. (ABC) 408 Christie Building Randolph 2-6429	Pittsburgh 34, Pa. (JJN) 704 Castle Shannon Blvd. Locust 3-0200	Ottawa, Ont. 800 Commonwealth Bldg. Central 6-7396
East Orange, N. J. (JJN) 589 Central Avenue Orange 5-1191	Portland 5, Ore. (ABC) 445 Pittock Block Building Capitol 8-0696	St. John's, Nfld. Centre Bldg., (Henry Street) 2400
Evansville 8, Ind. (ABC) 611 Court Bldg. Harrison 2-3314	Richmond 19, Va. (ABC) 9 E. Cary St. Milton 4-3021	Sudbury, Ont. 289 Cedar Street Osborne 4-3514
Fart Wayne 6, Ind. (ABC) Rm. 51, 3001 Fairfield Ave. Harrison 8813	Rock Island, Ill. (ABC) 301 Safety Building 6-6425	Sydney, N. S. P. O. Box 360 (125 Shadwick St.) 6304
Grand Rapids 2, Mich. (ABC) 211 Assn. of Commerce Bldg. Glendale 8-1357	Sacramento, Calif. (ABC) 2115 J. Street, Suite #3 Gilbert 2-2961	Toronto 5, Ont. 57 Bloor Street, W. Walnut 4-7321
Green Bay, Wisc. (ABC) 308 Main Street Hemlock 5-3520	St. Louis 1, Mo. (ABC) 1711 Railway Exchange Bldg. Garfield 1-1208	Vancouver 3, B. C. 405-6 Shelly Building Pacific 7820
Greenville, S. C. (ABC) Conway Bldg. Cedar 9-5361	Salt Lake City 11, Utah (ABC) 458 So. 3rd St., E. Elgin 9-3120	Windsor & Western Canada Sales P. O. Box 360 (310 Ellis Street, E.) Clearwater 4-4353
Harrisburg, Pa. (JJN) 835 South 13th St. Cedar 8-8144	San Antonio 5, Texas (ABC) 216 K-W Bldg., 401 W. Nueva St. Capitol 4-8662	Winnipeg, Man. 567 Banning Street Sunset 3-3400
Houston 2, Texas (ABC) 1909 Travis Street Capitol 7-6171		

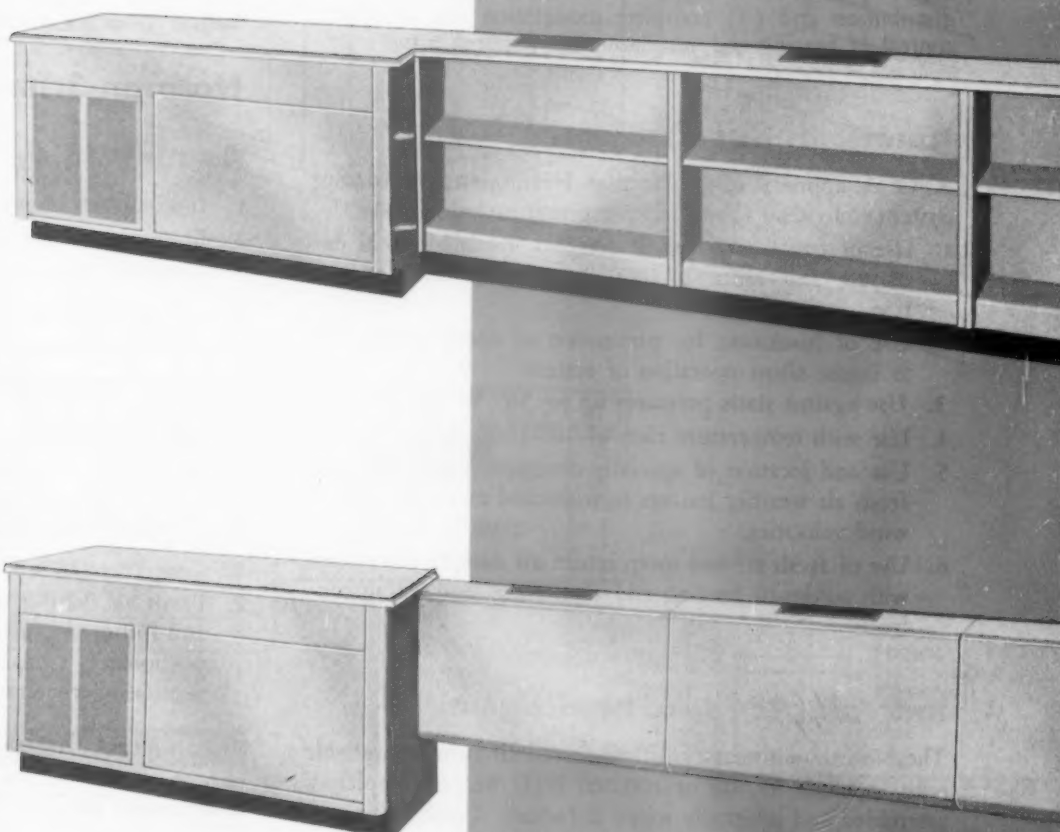
Nesbitt

Classroom Heating, Ventilating and Air Conditioning Equipment

Made and sold by John J. Nesbitt, Inc., Philadelphia 36, Pa. Sold also by American Blower Corporation and American-Standard Products (Canada) Ltd.

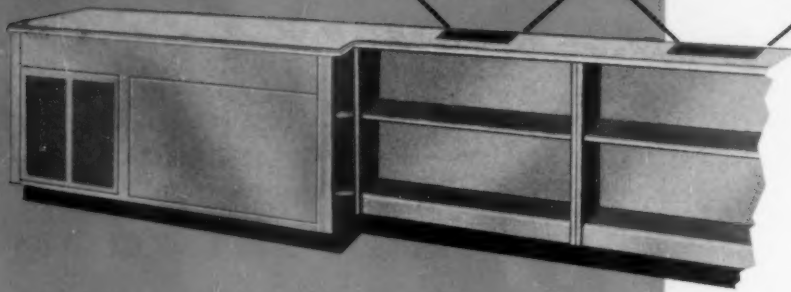
Norman®

**SCHOOLROOM
HEATING AND
VENTILATING
SYSTEMS**



NORMAN PRODUCTS CO. COLUMBUS, OHIO

schoolroom heating and ventilating system with or without bookshelves



Util-i-Duct Bookshelf Sections are available with or without sliding doors.

complete schoolroom package

The Norman Schoolroom Heating and Ventilating System answers the individual classroom needs for (1) rapid heating, (2) air for cooling and ventilating, (3) efficient air distribution and (4) complete modulation and automatic control of heating and ventilating air requirements.

American gas association approved

A. G. A. approval of the Norman Heating and Ventilating System individual Central Heating unit includes:

1. Use of furnace housed in compact insulated metal enclosure and utilizing 100% outside air for combustion.
2. Use of insulation for prevention of condensation and to insure silent operation of system.
3. Use against static pressures up to .50" W. C.
4. Use with temperature rises of 70°-120° F.
5. Use and location of specially designed combustion and fresh air weather louvers to withstand excessive outside wind velocities.
6. Use of fresh air and room return air damper assemblies with automatic heating and ventilating modulating controls.

individual central heating unit

The Norman automatic gas-fired forced air furnace, available with input of 85,000 or 100,000 BTU/hr., is completely assembled and internally wired at factory. Combustion and safety controls are standard to the industry and of latest type listed by the A. G. A. Heat Exchanger is ceramic coated to assure maximum life of the rapid heat-transferring heating element. Exclusive indoor-outdoor control assembly modulates dampers automatically to assure proper blend of fresh and recirculated air.

util-i-ducts, wall-i-ducts

Norman Util-i-Duct Bookshelf sections and optional Wall-i-Duct sections are made of heavy gauge furniture steel. Partially assembled, they are easily installed and connected to form a tightly sealed air passage-way. Each section has

acoustical fiber glass insulation, rubber edging to prevent streaks, and an adjustable perimeter diffuser. Level top provides work space. Optional Wall-i-Duct sections save room space, extend only 7 1/8" out from wall, and can be installed with top 27" or 32" above floor. Corner, Filler and End sections of Util-i-Duct and Wall-i-Duct are available for flush wall-length installation.

Norman Schoolroom System Provides:

A. night operation or unoccupied cycle

1. Intermittent blower operation.
2. Fresh air damper closed, system operates on 100% re-circulated room air.

B. warm-up cycle

1. Continuous blower operation.
2. Outside air damper opened to minimum setting.
3. Separate Lo-Limit control furnished to assure that discharge air temperatures will never be below 60°-65° F. regardless of temperature of outside air.

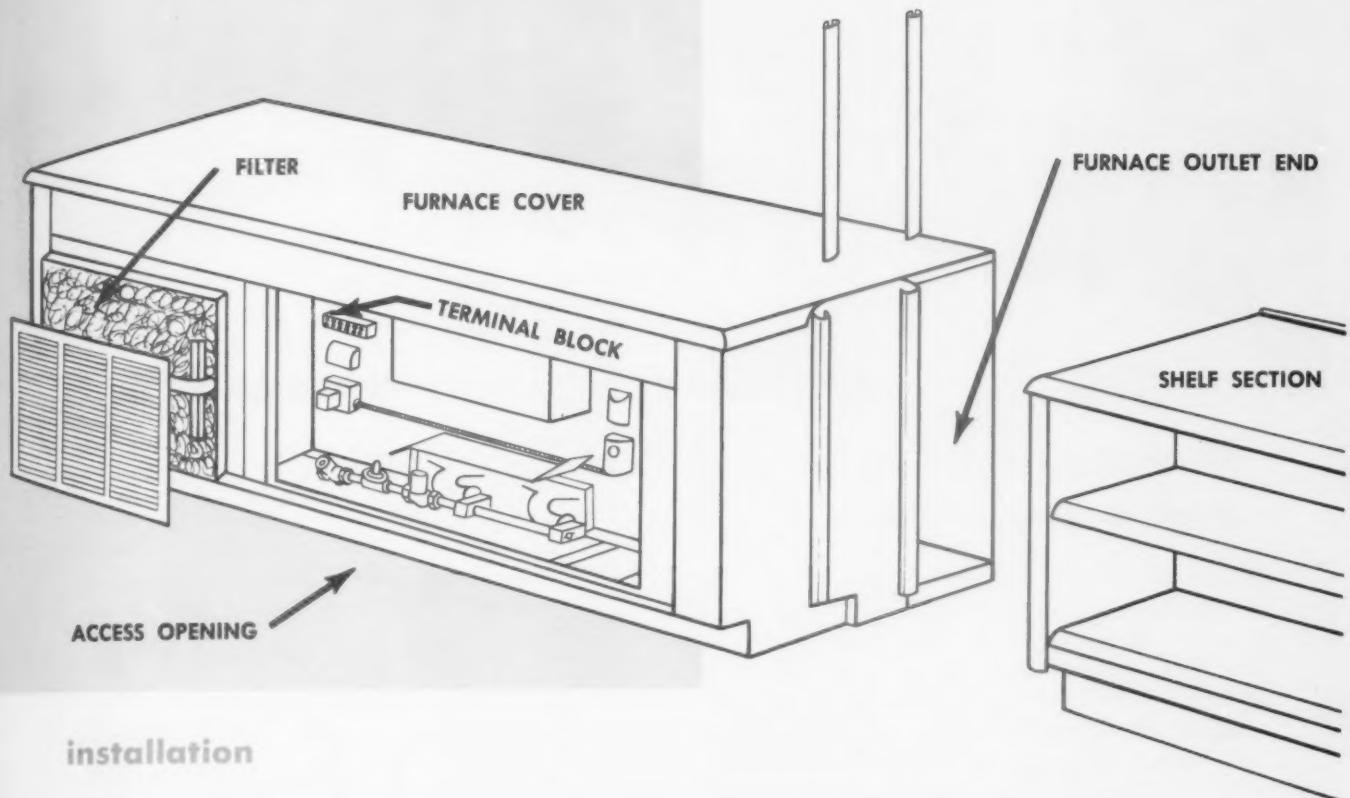
C. daytime or occupied cycle

1. Continuous blower operation.
2. Fresh air damper modulates between minimum setting and full open position with recirculating air damper proportionately closed or open dependent on heating and ventilating requirements of classroom.

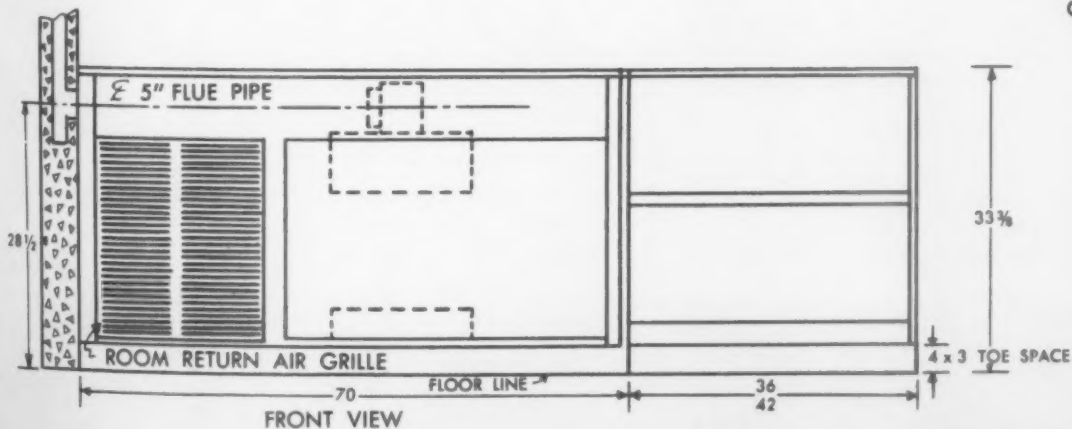
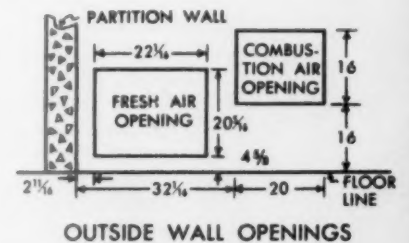
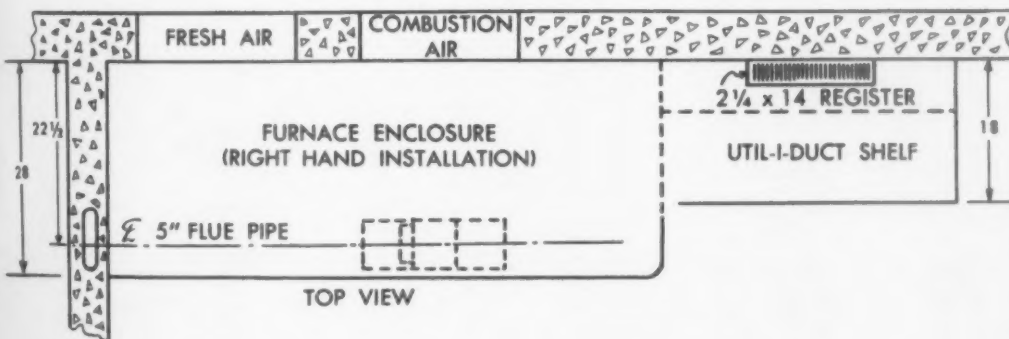
MODEL NUMBER	HVS-85	HVS-100
INPUT, BTU/hr	85,000	100,000*
BONNET CAPACITY, BTU/hr	48,000	80,000
Blower Size—diameter	9"x3/4"	9"
Blower motor—h.p. (split phase)	1/4	1/2
C. F. M.—total external static: 0.20" W. C.	1000	1100
Filter—fresh air—width x height x thickness	2-10"x10"x1"	2-10"x10"x1"
Filter—recirculated air width x height x thickness	2-10"x10"x1"	2-10"x10"x1"
Fresh Air Inlet Duct—width x height	21 1/4"x20-1/16"	21 1/4"x20-1/16"
Combustion Air Opening—width x height	20"x16"	20"x16"
Flue Pipe Connection—diameter	5"	5"
Gas Pipe Connection—I. P. S.: natural and mixed manufactured propane gas	1/2" 1/2" 1/2"	1/2" 3/8" 1/2"
Heating and ventilating equipment housing height x depth x length	33 1/2"x28"x70"	33 1/2"x28"x70"
Util-i-Duct with shelving height x depth x length	33 1/2"x18"x36" 33 1/2"x18"x42"	33 1/2"x18"x36" 33 1/2"x18"x42"
Optional: Wall-i-Duct without shelving height x depth x length	23"x7 1/8"x36" 23"x7 1/8"x42"	23"x7 1/8"x36" 23"x7 1/8"x42"

*95,000 BTU/hr input on LP Gas

individual central heating unit (including automatic ventilation)



installation



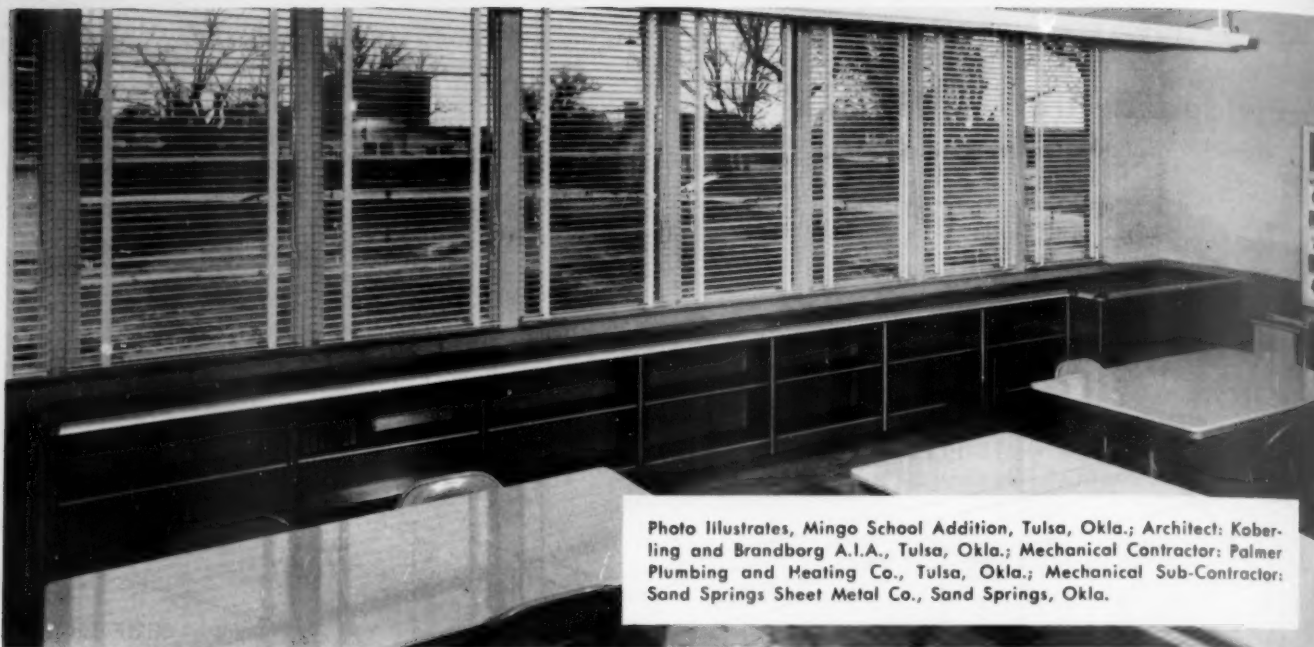


Photo Illustrates, Mingo School Addition, Tulsa, Okla.; Architect: Koberling and Brandborg A.I.A., Tulsa, Okla.; Mechanical Contractor: Palmer Plumbing and Heating Co., Tulsa, Okla.; Mechanical Sub-Contractor: Sand Springs Sheet Metal Co., Sand Springs, Okla.

Norman® heating & ventilating system **architectural specifications**

Furnish and install where shown on plans the Norman Classroom Heating and Ventilating Package, having the capacities specified. Furnace, furnace enclosure, inside and outside grilles and Util-i-Duct shelving units shall be as manufactured by the Norman Products Company, 1150 Chesapeake Avenue, Columbus, Ohio, or approved equal.

Each Individual Central Heating Unit shall incorporate the following features:

1. Horizontal furnace and controls shall be A. G. A. approved as follows:
 - a. Furnace shall be approved as a central heating furnace in alcove with metal enclosure.
 - b. Furnace shall be approved for use against static pressures of 0.50" W. C. and temperature rises of 70° to 120° F.
2. Combustion chamber shall be 16 ga. steel and ceramic coated.
3. Blower assembly shall be belt-driven, steel, multi-blade, resilient mounted and centrifugal type.
4. Motor shall be single phase, 115V - 50/60 cycles, resilient mounted, with built-in overload protection of the automatic reset type.
5. Furnace enclosure shall be 18 ga. construction. Removable access panel shall include tamper-proof locking device. Return air grille shall be integral part of enclosure and removable for access to filter and secured with tamper-proof locks.
6. Each unit shall be supplied with (permanent type) (throw-away type) filters.
7. Weather proof outside fresh air louver and combustion air louver shall be furnished. Fresh air louver shall be hinged with tamper-proof locking device to allow access to filter. Outside fresh air louver and combustion air louver shall be constructed of aluminum and shall include bird screen

and should be designed to withstand excessive wind velocities. Mounting frames to be heavy gauge steel.

Util-i-Duct shelving shall incorporate the following features:

1. All Util-i-Duct shelving, filler sections and corner sections shall be constructed of 18 ga. steel and shall match in design the furnace enclosure.
2. Vertical discharge adjustable perimeter diffusers shall be furnished with each Util-i-Duct shelving unit. Diffuser shall include tamper-proof locking damper.
3. Each Util-i-Duct shelving unit shall include insulation on the back.
4. The back of the furnace enclosure, and Util-i-Duct shelving units shall be provided with a resilient wall seal to close the gap between the wall and system.
5. The front edge of the furnace enclosure and the Util-i-Duct shelving shall be provided with an extruded aluminum trim to protect the front exposed edge of the linoleum. Trim shall be rounded in design and permit the use of concealed fastening bolts. Bolts and nuts shall be furnished for attachment. Linoleum to be furnished by others.

Wall-i-Duct (without shelving) shall incorporate the following features:

1. All Wall-i-Duct Sections, corner and filler sections shall be constructed of 18 ga. steel. Wall-i-Duct to have rounded edges.
2. Vertical discharge adjustable perimeter diffuser shall be furnished with each Wall-i-Duct section. Diffuser shall include tamper-proof locking damper.
3. Each Wall-i-Duct section shall include insulation on four interior sides.

Each Norman Schoolroom System shall include air dampers, linkage, damper motor, and modulating controls.

HVS-S-ASU59

PRINTED IN U.S.A.



NORMAN PRODUCTS CO.

1150 Chesapeake Avenue, Columbus 12, Ohio



THE POWERS REGULATOR CO.

Established 1891

Skokie, Ill. • Offices in Chief Cities listed on Page 4

**Pneumatic Systems of Automatic Temperature Control
for all Types of Heating and Ventilating**

Also the most complete line of Thermostatic Controls made for
Water Heaters and all types of Shower Baths, see page 3.

MODERN CONTROLS FOR MODERN SCHOOL BUILDINGS



SMALL SIZE

Fits into narrow vertical spaces. Dimensions for both standard or Day-Night thermostats: 5 1/2" H x 2 7/8" W x 2 1/4" D.

POWERS ROOM THERMOSTATS

provide utmost comfort for teachers and pupils and maximum fuel economy. Users often report over 25 years of reliable low-maintenance-cost service. They are truly gradual acting and give smooth control of valves and dampers. Only two of the many styles available are shown above.

More Accurate Control with Powers PACKLESS Valves

For control of convectors, unit ventilators, radiators and radiant panel heating coils Powers PACKLESS Valves are superior in every way. Because they have no packing nut or gland to be tightened, oiled or adjusted there is no binding of valve stem as with conventional packing.

With their duo-seal PACKLESS construction (See B & C in drawing at right) and characterized throttling plug they give smooth control and insure correct flow of steam or hot water. Besides giving better performance they eliminate packing maintenance and leakage of water or steam.

No More Packing Maintenance



No More Steam or Water Leakage

For more than two generations the name POWERS has stood for quality products, proper installation, and SERVICE after installation whenever required.

In discussing temperature control problems with Powers you can benefit from our many years of experience gained in thousands of schools from coast to coast and in prominent buildings at Harvard University, Massachusetts Institute of Technology, Carnegie Tech, Illinois Tech, U.C.L.A., California Institute of Technology, the U.S. Capitol building, UN Conference and Assembly Halls and in many other outstanding buildings.

Illustrated here and on page 2 are only a few of the many types of Powers control employed to regulate—

- Unit Ventilator and Convector Systems
- Split Systems with Forced Ventilation and Convectors
- Radiant Panel Heating
- Warm Air Heating Systems with Single and Double Ducts

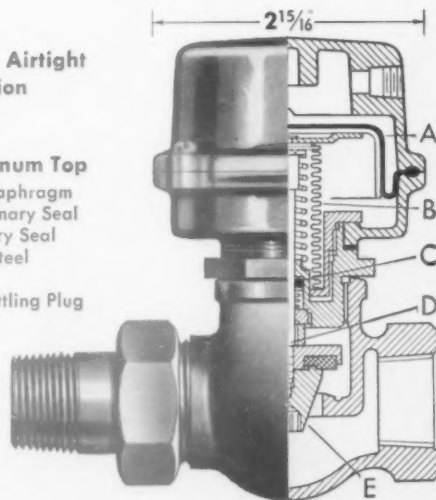
For further information contact our nearest office shown on page 4 or write us direct.

Note Durable, Airtight Construction

Rugged Cast Aluminum Top

- A) Durable Molded Diaphragm
- B) Bronze Bellows, Primary Seal
- C) "O" Ring, Secondary Seal
- D) Polished Stainless Steel Valve Stem
- E) Characterized Throttling Plug

Available in
Various Types
and Sizes



POWERS New



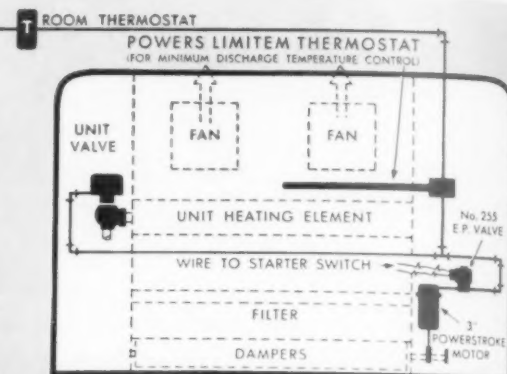
Airstream Thermostat

A Precision Instrument engineered to provide control for Unit Ventilator discharge temperatures—a critical requirement for classroom comfort.



POWERS NEW Unit Ventilator Control System

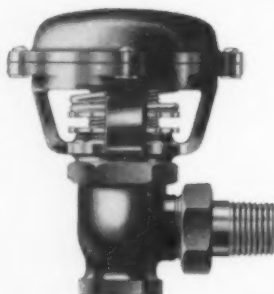
Eliminates OVER-heated Classrooms and Insures Utmost Comfort and Fuel Economy



POWERS PACKLESS Control Valves

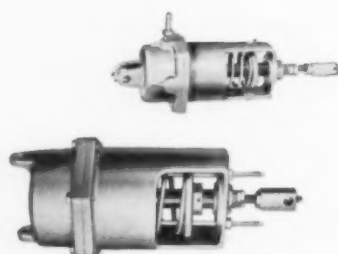
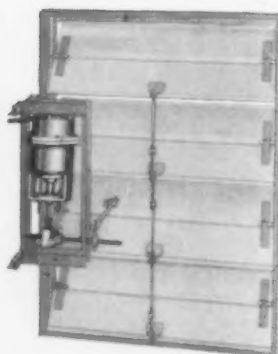
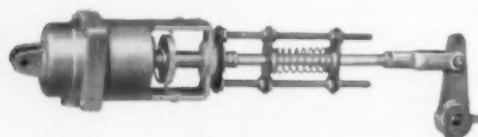
Specially Designed for UNIT VENTILATORS

To Insure Better Control, All Valves are carefully sized for each unit.



Special duo-seal construction (a) primary seal; (b) secondary seal) reduces valve stem friction, eliminates packing maintenance and gives smooth control. High lift poppet provides 3 times as much travel for 1/2" valve as compared with previous valves. Characterized throttling plug insures correct flow of steam or hot water.

POWERSTROKE DAMPER OPERATOR, below: with hesitation spring gives smooth gradual operation of Unit Ventilator dampers.



Powers Modern Damper Operators are available in various types to operate all sizes and types of dampers.

POWERS

UNIT VENTILATOR TEMPERATURE CONTROL

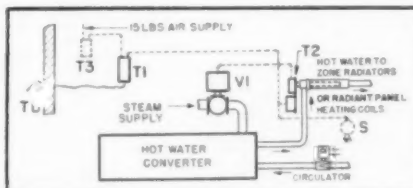
Gives More Accurate Control with Less Maintenance

With its simple, direct control Powers gives close regulation without using complicated auxiliary devices. Thermostats, packless valve and damper operator are all engineered to give many years of reliable, trouble free service.

New **LIMITEM Thermostat** is the most accurate instrument made for low-limit control of unit ventilators. It incorporates such sound engineering principles as: Sturdy construction, accurate response, ingenious non-bleed double air valve to insure stable control with low hysteresis and Adjustable Sensitivity to give precise throttling range.

POWERS PACKLESS Control Valves are now standard for unit ventilators and convectors. You get a really modern temperature control system when you use POWERS. For further information contact your nearest Powers Office shown on page 4.

POWERS MASTROL SYSTEM of CONTROL for Forced Hot Water Heating and Panel Heating, etc.



Temperature of water is maintained in direct relation to weather outdoors. Controls are shown below. Performance records show it is unsurpassed for reliability and low maintenance cost.



Master-SubMaster Controls T1 and T2 are shown above. They regulate Powers **FLOWRITE** Valve V1 on right which controls flow of steam to hot water converter in above diagram of Powers **MASTROL** System of Control.

See List of Offices on Page 4.

It doesn't pay
to Skimp on
Safety
In Showers



WHY risk
accidents
and lawsuits
?

You Can Depend on **POWERS** new Hydroguard® to provide utmost shower **SAFETY • COMFORT • ECONOMY**

Note uncluttered simplicity of installation at right. Modern styling
simplifies installation; improves appearance.

More Convenient. There's only one dial to turn instead of 2 or more valves. Powers Triple duty Strainer-Check-Stops, concealed behind the HYDROGUARD cover, simplify piping and tile work.

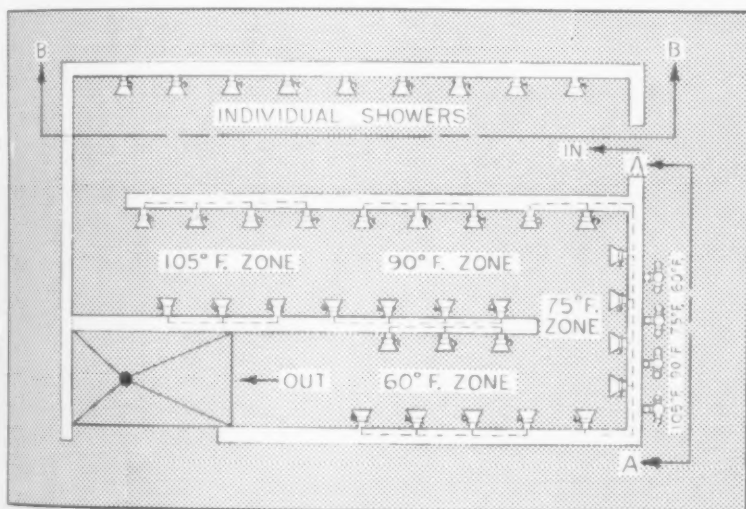
Thermostatic SAFETY-LIMIT Protects Bather from Scalding. It prevents flow of water to shower above 110°F. If cold water supply fails HYDROGUARD instantly shuts off the shower.

Comfort. Shower temperature remains constant wherever bather sets it . . . regardless of pressure or temperature changes in water supply lines



Economy. HYDROGUARD conserves water formerly wasted due to unexpected temperature changes. HYDROGUARD has a built-in shut-off valve therefore none is required between it and the shower head.

Consult Powers on Shower Planning. Get Powers SAFE shower systems data. Our engineers backed by 60 years of experience in water temperature control are well qualified to help design a complete shower system from the source of hot water to the shower head. Phone or write nearest office on page 4 for booklet "SAFER SHOWERS."



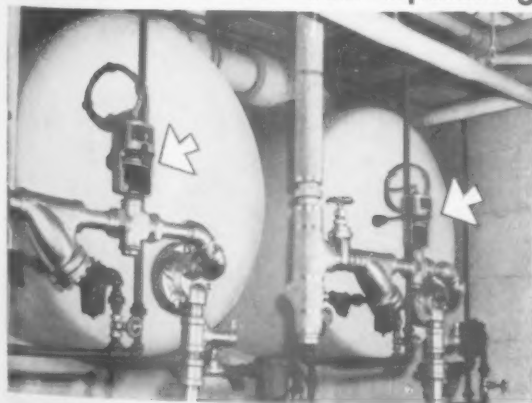
POWERS Type N large capacity HYDROGUARD for Multiple Type and Progressive Showers

(see diagram at left)

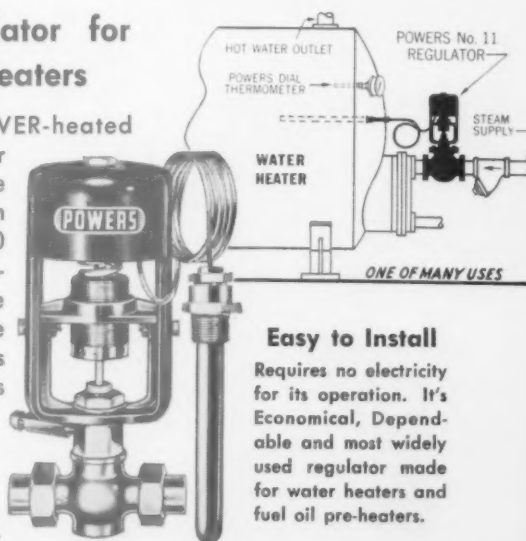
Capacities at 45 lbs. per sq. in: N45 = 45 U. S. gals./min.; N125 = 125 U. S. gals./min. For further information about Type N Hydroguard's many points of superiority, Phone or Write your nearest Powers office (on page 4) for Bulletin 362.



POWERS No. 11 Self-Operating Temperature Regulator for Water Storage Heaters



Automatically prevents OVER-heated water. Eliminates hot water complaints. Fuel savings alone often pay back its cost each year. Often lasts 15 to 20 years with minimum of maintenance. Once set for the proper temperature it can be forgotten. Bulletin 329 gives full information regarding its many superior features.



Easy to Install

Requires no electricity for its operation. It's Economical, Dependable and most widely used regulator made for water heaters and fuel oil pre-heaters.

Phone or Write Your Nearest POWERS Office Listed on Next Page for Bulletin 329.

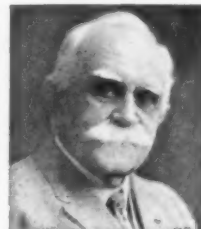
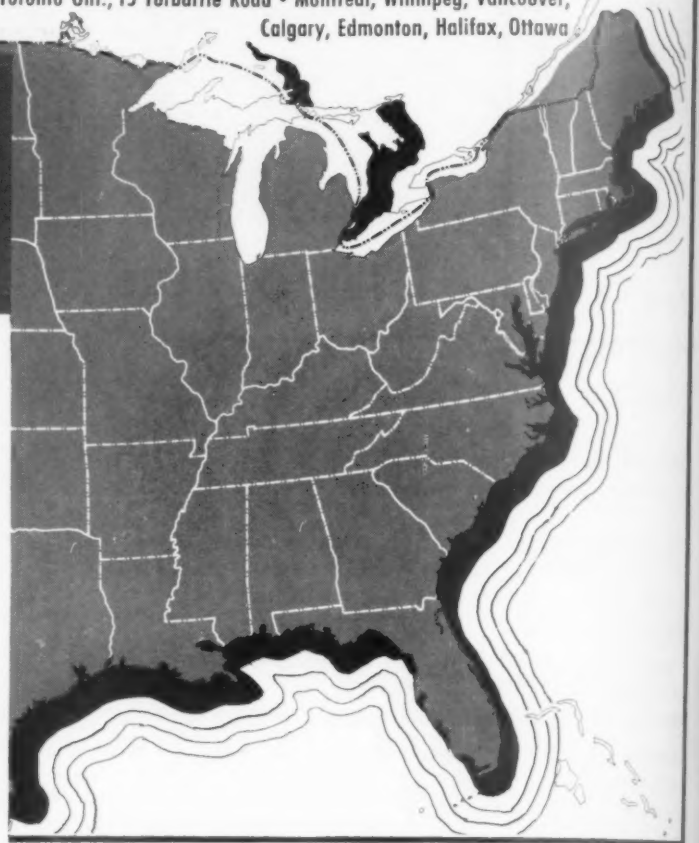
CANADIAN OFFICES: Toronto Ont., 15 Torbarrie Road • Montreal, Winnipeg, Vancouver, Calgary, Edmonton, Halifax, Ottawa

POWERS

SERVICE Available
from Coast to Coast

Albany 5, New York, 1623 Central Ave.
Albuquerque, New Mexico, P. O. Box 8402
Atlanta 9, Ga., 559 Dutch Valley Road, N.E.
Baltimore 16, Maryland, 3414 Duval Ave.
Billings, Montana, 210 M&R Bldg., 1002 Division St.
Birmingham 9, Ala., Box 5727-Homewood Sta.
Boston 21, Mass., 295 Columbia Rd.
Buffalo 2, New York, 134 W. Chippewa St.
Charleston 1, W. Va., 1578 Lee Street
Charlotte 3, N. Carolina, 521-B Dowd Rd.
Chattanooga 1, Tenn., P. O. Box 747
Chicago 26, Illinois, 6655 Ridge Blvd.
Cincinnati 37, Ohio, 7612 Reinhold Drive
Cleveland Heights 18, Ohio, 1955 Lee Rd.
Columbia, S. Carolina, 3202 Devine St.
Columbus 12, Ohio, 1395 Grandview Ave.
Dallas 35, Texas, 7707 Sovereign Row
Davenport, Iowa, Union Arcade Bldg., Room 208
Dayton 5, Ohio, 1416 N. Main St.
Denver 23, Colorado, 240 Kalamath Street
Des Moines 14, Iowa, 907 Sixth Ave.
Detroit 20, Mich., 530 Livernois Ave.
Fargo, North Dakota, 510 4th Ave., N.
Gary, Ind., 711 East Ridge Rd.
Grand Rapids 3, Mich., 320 Fulton St.
Green Bay, Wis., 308 Main Street
Greensboro, N. C., 1002 Arnold St.
Greenville, S. Carolina, 1601 Pleasantburg
Hartford 5, Conn., 190 S. Beacon St.
Houston 6, Texas, 2425 South Boulevard
Indianapolis 2, Ind., 1413 E. Riverside Dr.
Jackson, Mississippi, 5044 N. State St.
Jacksonville 4, Florida, 115 Park Street
Kansas City 8, Missouri, 1811 Walnut St.
Los Angeles 26, Calif., 3200 W. Temple St.
Louisville 2, Ky., 315 W. Jefferson St.
Lubbock, Texas, P. O. 151, 1101-25th St.
Memphis 3, Tennessee, 215 Madison Ave.
Miami 44, Florida, 581 S.W. 47th Ave.
Milwaukee 16, Wisc., 4335 North 35th St.
Minneapolis 13, Minn., 344 Taft St., N.E.
Nashville 3, Tenn., 1917 Division Street
New Orleans 19, La., 3144 Paris Ave. E.
New York 17, N. Y., 231 E. 46th St.
Oklahoma City 6, Okla., 1726 N.W. Fifth St.
Omaha 5, Nebraska, 3171 Leavenworth
Peoria Heights 4, Ill., 908 E. Glen Ave.
Philadelphia 11, Pa., 6428 Rising Sun Ave.
Pittsburgh 16, Pa., 1612 Potomac
Portland 6, Maine, 497 Foote St.
Portland 13, Ore., 2809 Northeast 58th St.
Richmond, Virginia, 2205 Tazewell St.
Roanoke, Virginia, 1227 Patterson Ave.
Rochester 8, N. Y., 135 Spring St.
St. Louis 8, Mo., 3805 Washington Ave.
Salt Lake City 15, Utah, 233 W. 13th St.
San Antonio 6, Texas, 109 Barrera St.
San Francisco 7, Calif., 161 Missouri St.
Seattle 99, Wash., 511 Second Ave., W.
Sioux Falls, S. Dakota, 315 Paulton Bldg.
South Bend, Ind., 216 W. Washington St.
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Springfield, N. J., 30 Commerce St.
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Tampa, Florida, 3624 Jetton Ave.
Toledo 1, Ohio, 1313 Jefferson Ave.
Tulsa 3, Oklahoma, 416 W. Third St.
Washington 6, D. C., 2039 "K" Street, N.W.
Wichita 2, Kansas, 216 E. Waterman

Union 9-6422
ALpine 5-1631
Trinity 6-2673
Liberty 2-4455
Amhurst 5-5645-46
Trinity 1-2866
Columbia 5-2430
Madison 3581
Dickens 2-2433
Edison 2-3395
Amhurst 5-5645-46
Rogers Park 1-6700
Poplar 1-5520
ERview 1-2500
ALpine 6-2777
Hudson 6-3404
Fleetwood 2-1751
3-6451
Crestview 7-8913
Maine 3-3218
Atlantic 2-9606
Li 7-7070 & Jo 6-7130
2-7051
TU 7-4975 & RE 1-6887
Glendale 1-9962
Hemlock 2-0976
BRoadway 5-6464
5-6789
Adams 3-8264
Jackson 9-3301
Melrose 5-6383
6-5817
Elgin 6-5601
Victor 2-6160
Dunkirk 4-4187
Juniper 7-6842
Porter 3-4617
8-4406
HIGHLAND 3-3885
UPTOWN 1-9000
Sterling 1-2734
ALpine 6-3223
Evergreen 2392
Murray Hill 8-4310
Forest 5-7212
Atlantic 5131
5-5710
Pilgrim 5-6700
Locust 1-7720
Spruce 5-0730
Atlantic 8-5063
Milton 9-0080
Diamond 2-4781
Baker 5-8058
Jefferson 1-3126
Hunter 7-7765
Capital 6-7229
Underhill 1-7471
Murdock 8250
2-3511
Central 2-8231
Madison 4-2933
Republic 6-5353
DRexel 6-3700
GRanite 6-4081
8-3618
Cherry 4-6395
Luther 4-0709
Federal 7-3570
Amhurst 5-1191



WILLIAM PENN POWERS

... with his invention of the first all pneumatic system of temperature control and gradual acting vapor disc thermostat made an invaluable contribution to the modern science of heating, ventilating and air conditioning.

Factory and General Office Building of **THE POWERS REGULATOR CO.** Skokie, Ill. (Suburb of Chicago)

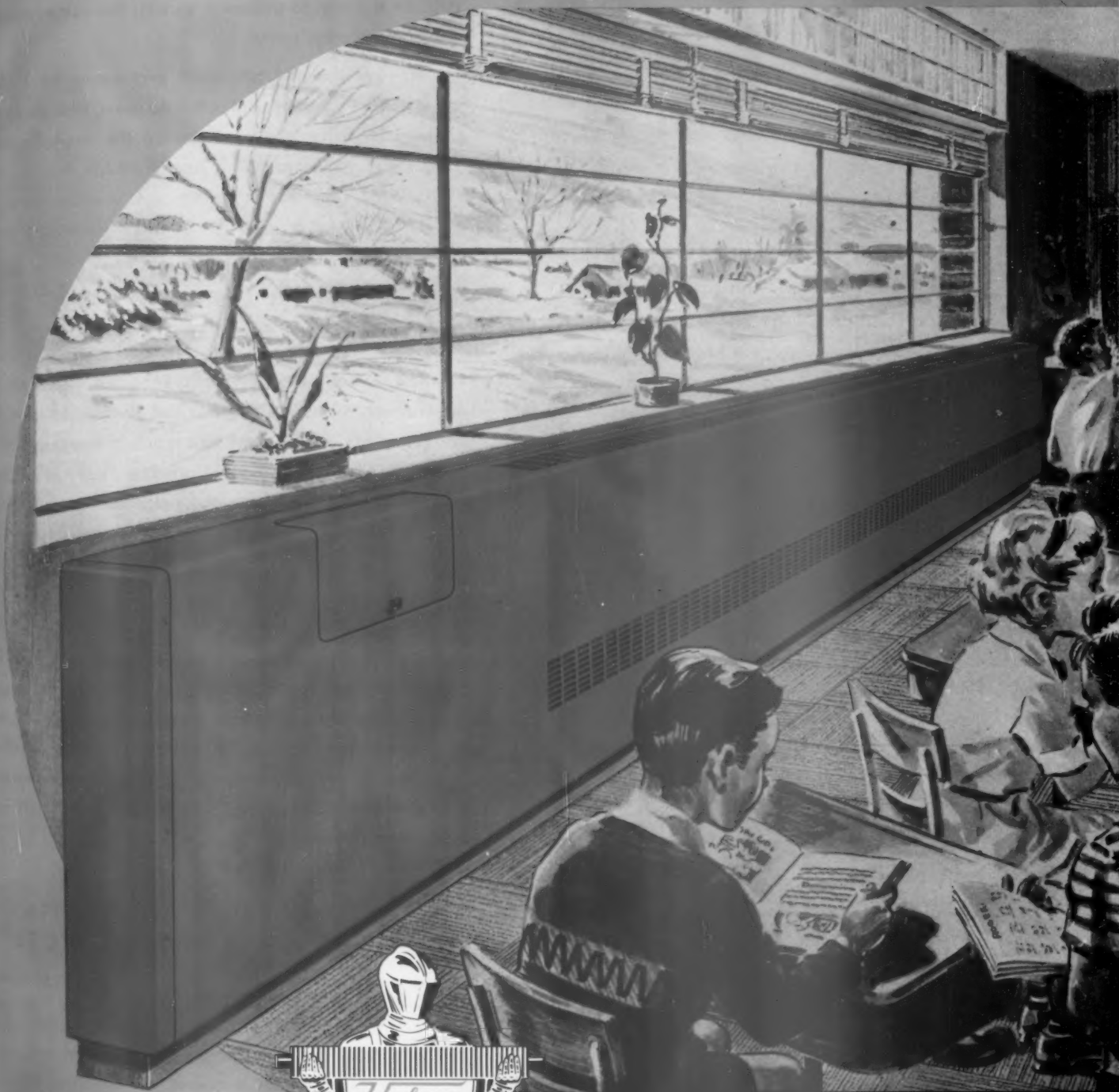


C-1/VU

Vulcan

LINOVENTILATOR* SYSTEM

For America's Classrooms



The VULCAN Radiator Company

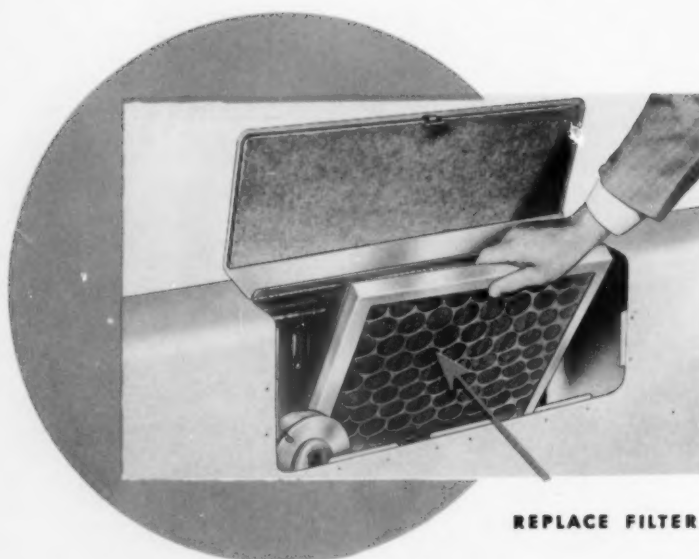
775 CAPITOL AVENUE, HARTFORD 6, CONNECTICUT

Catalog No. LV-401

LINOVENTILATOR — New Heating-Ventilating System Meets All Requirements At Lowest Cost

The completely new Vulcan LINOVENTILATOR SYSTEM is the latest innovation in classroom heating and ventilating. It has been designed for economy, efficiency and functional beauty, with remarkable savings in installation and operating costs. This has been made possible by unique engineering that introduces an entirely new concept in heating and ventilating.

The LINOVENTILATOR SYSTEM meets the exacting requirements for schoolroom heating-ventilating as established by recognized authorities. **It now places heating-ventilating, heretofore impossible because of high cost, within the reach of local school budgets.**



REPLACE FILTER

A QUALITY SYSTEM AT LOWEST COST

After years of extensive research and development, VULCAN is proud to present a quality, low cost schoolroom heating-ventilating system.

New design and advanced engineering have eliminated expensive and complicated dampers, intricate control cycles, and further, have eliminated the need for costly auxiliary radiation to maintain comfortable temperatures, day or night. These cost-saving features constitute an incomparable economy in classroom heating-ventilating systems.

STUDENT-TEACHER HEALTH AND COMFORT

The Vulcan LINOVENTILATOR System meets all the requirements for maintaining an atmosphere which is healthy and comfortable for students and teachers. Heating, cooling, ventilation and elimination of window "down-draft" are efficiently and economically accomplished.

FUNCTIONAL BEAUTY SPACE-SAVING DESIGN

The attractive LINOVENTILATOR enclosure is ideal for architectural treatments. Rounded corners and flush joints throughout create a picture of smooth, molded steel. With a depth of only $6\frac{3}{4}$ ", the LINOVENTILATOR System allows for more active classroom space. "Pencil-proof" louvres eliminate student tampering. Here is functional beauty with outstanding economy in space and cost.

ADDITIONAL SAVINGS WITH LOWEST MAINTENANCE COST

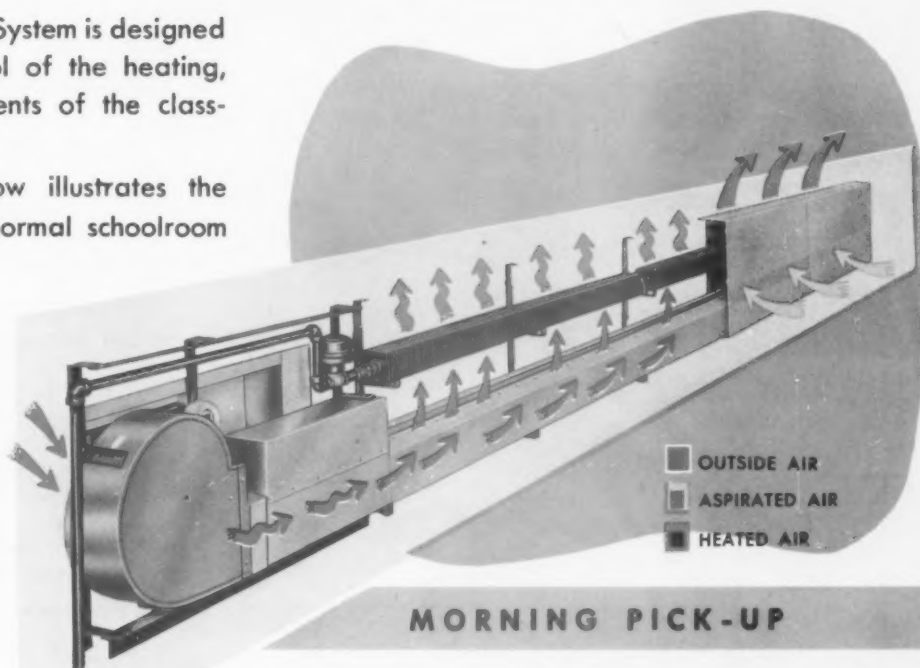
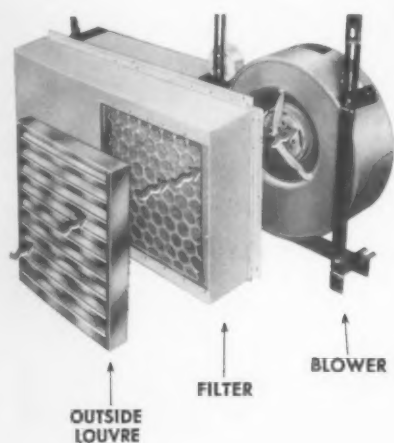
Maintenance of the Vulcan LINOVENTILATOR System has been reduced to the most simple requirement: replacement of fiberglass filter.

Flush door in power panel provides easy access.

OPERATION OF VULCAN LINOVENTILATOR SYSTEM

The Vulcan LINOVENTILATOR System is designed to provide fully automatic control of the heating, ventilating and cooling requirements of the classroom during the entire day.

The air flow diagram below illustrates the operation of the system during normal schoolroom occupancy.



The high output of Vulcan Linovector elements by natural convection means that the pick-up from reduced night temperatures can be accomplished without the need for blower operation.

Here again, the Vulcan LINOVENTILATOR System provides additional economy by reducing fuel and power costs.

DAYTIME HEATING AND VENTILATING

During periods of occupancy, the blower runs continuously to provide necessary fresh air for ventilation. This fresh air aspirates room air as it is discharged through a continuous slot along the entire length of the enclosure. The mixture of fresh air (40-45% total air) and re-circulated room air are passed over the fin tube and heated to maintain uniform room temperature.

DAYTIME COOLING AND VENTILATING

Often during the day, there is a buildup of heat from the sun, lighting system and body heat; this creates the need for controlled cooling to prevent overheating. The Vulcan LINOVENTILATOR System automatically supplies outdoor air at lower temperature to compensate for this excess heat.

The limit thermostat prevents air from being admitted to the room at temperatures too low for comfort.

NIGHTTIME HEATING

At the end of the school day, the blower can be automatically or manually turned off. Then, classroom heating is provided by natural convection from the Linovector element. Proper temperature is maintained by means of the same control system used during the daytime operation. Thus, comfort conditions are provided for the teacher after school hours, without the necessity of expensive blower operation.

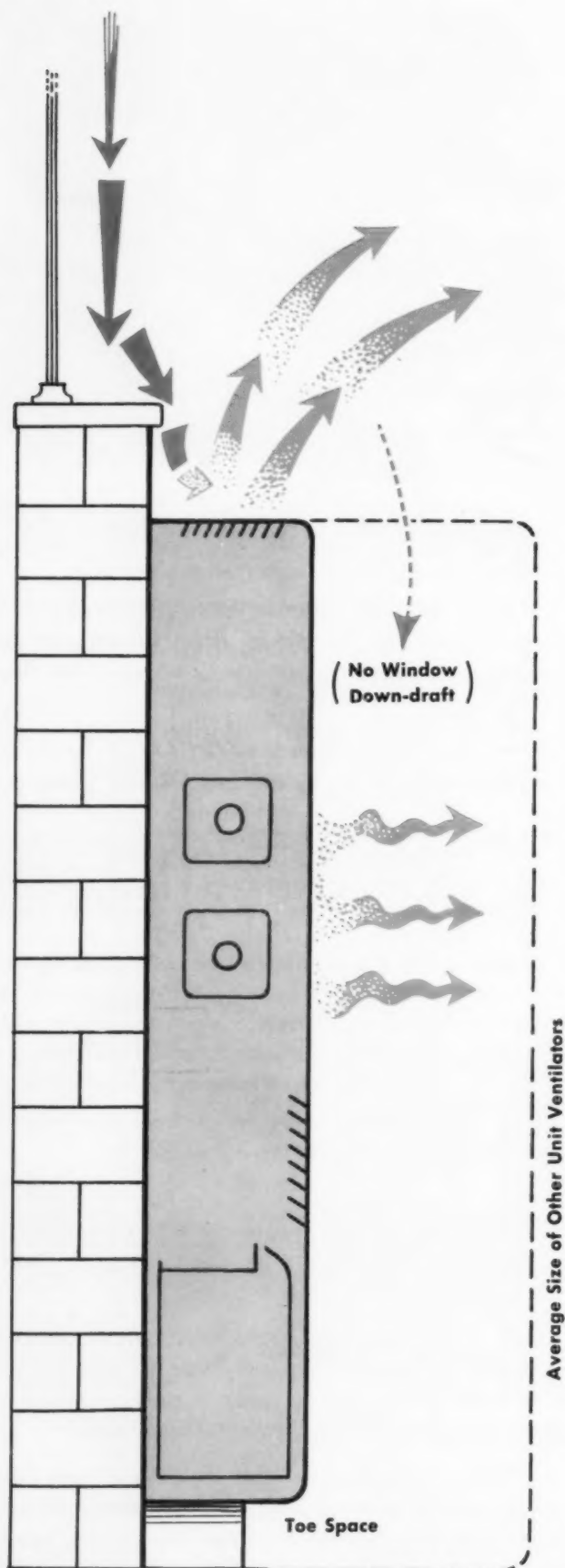
Lower night temperatures, affecting fuel savings, can therefore be maintained under all weather conditions without the need for auxiliary radiation.

UNIFORM LOW VELOCITY AIR DISTRIBUTION

At all times, the Vulcan LINOVENTILATOR System discharges air into the room uniformly over the entire length of the windows at low velocity, which is highly desirable (low velocity minimizes pick up and circulation of dust).

Window "down-drafts", air deflections from lighting fixtures, and the need for directional louvers are eliminated. Uniform temperatures and draft-free comfort are provided throughout the entire classroom by low velocity discharge.

OUTSTANDING COMFORT PERFORMANCE



LINOVENTILATOR ELIMINATES "DOWN-DRAFTS" FROM WINDOWS

One of the serious problems in heating and ventilating is that of window "down-drafts", which causes discomfort to students and teacher. The Vulcan LINOVENTILATOR System completely eliminates "down-drafts" during all phases of its 24-hour operation. The diagram at left illustrates elimination of "down-drafts".

LINOVENTILATOR ALLOWS MORE USABLE FLOOR SPACE

More compact, slimmer, Linoventilator allows up to twice as much usable classroom floor space. (Dotted line in diagram shown at left shows the average size of other unit ventilators).

COOLING CYCLE

When heat is not being supplied, but the unit is delivering cooler air, the velocity of discharge is sufficient to intercept the window down-draft and provide a positive barrier against it.

HEATING CYCLE

During the heating cycle, when the fan is on, the air discharges from the outlet grille, picks up the window down-draft mixing it with heated air, re-directing it upwards and out into the classroom. At night, when operating by natural convection, window down-drafts are still intercepted by the heated air discharge.

RADIATED HEAT

Radiated heat loss is another problem created by large window areas, particularly during cold weather. The Vulcan LINOVENTILATOR System provides a continuous source of radiated heat under the windows to offset this loss. This added advantage eliminates the expense of installing auxiliary radiation.

EASY, SIMPLE OPERATION

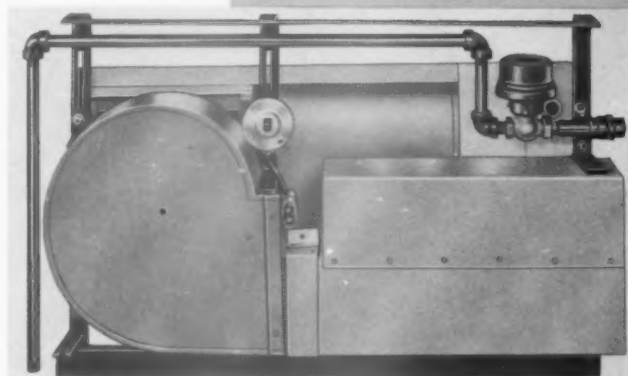
Reduces Installation and Maintenance Costs

SIMPLIFIED CONTROL SYSTEM

Vulcan Linoventilator Systems are designed especially to simplify the control system required. No dampers are used in the unit and, hence, only three basic controls are needed: a modulating motorized valve, a room thermostat, and a limit thermostat.

The system is available in two packaged units:

- (a) complete with all controls (electric, electronic and pneumatic) factory-installed, furnished by others.
- (b) without controls (these can be field-installed).



CONTROL AND SERVICE ACCESS DOOR

Access to the temperature adjusting dial, the filter and the blower motor for normal adjustment and service is made through a convenient, hinged access door.



NO DAMPERS REQUIRED

The design of the Vulcan LV System is such that dampers are completely eliminated. Complicated, mixing dampers are not necessary since the discharge of fresh air from the aspirating slot provides for complete mixing of fresh air and return air along the entire length of the inlet grille (See diagram on page 3).

NO WIND "BLOW-THROUGH" WITH LINOVENTILATOR SYSTEM

The problem of wind "blow-through" is solved without the need of balancing or shut-off dampers. Wind velocity does not affect the quantity of air delivered by the powerful Vulcan blower, which builds up a positive static pressure within the system. At night, when the fan is off, wind velocity

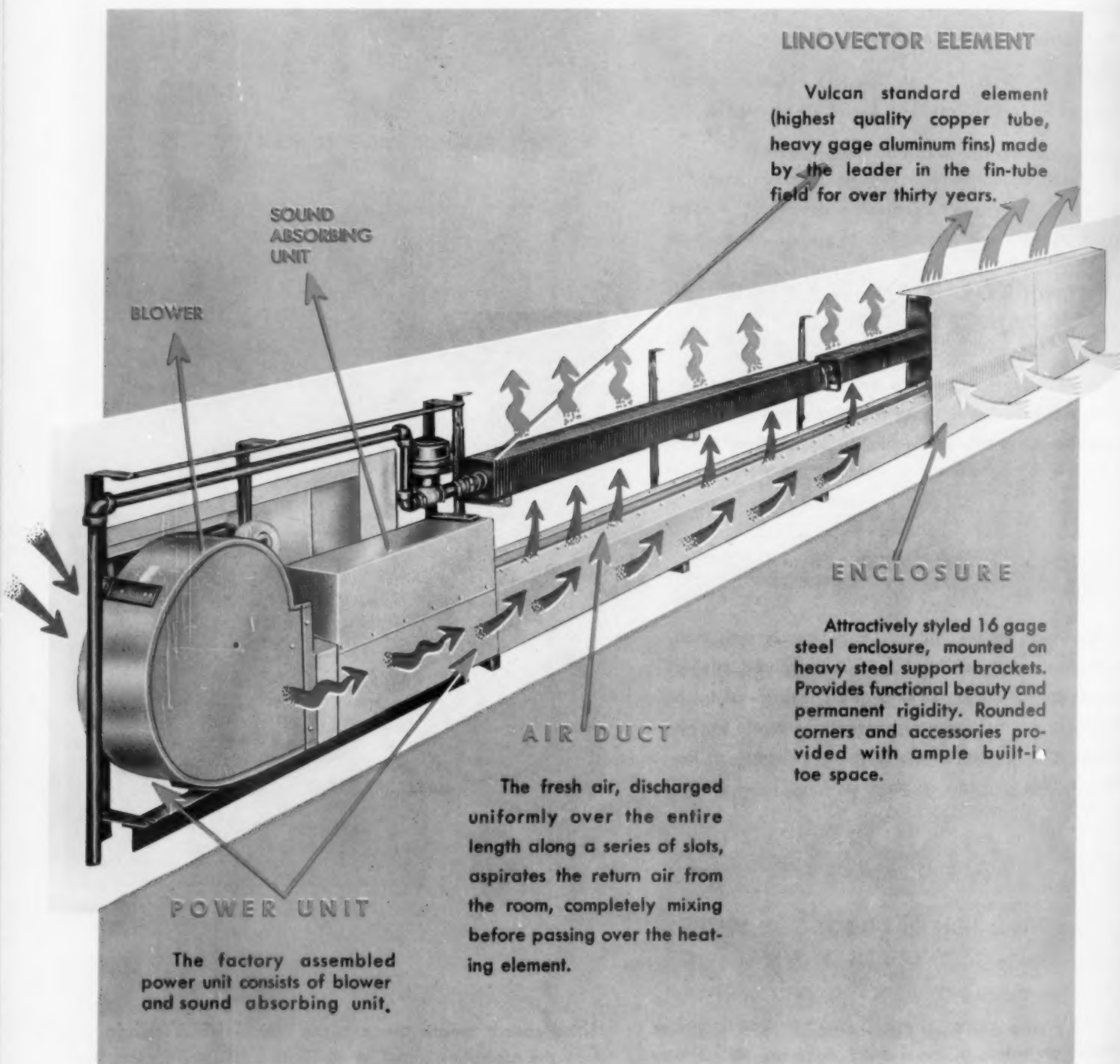
alone cannot create the pressure needed to discharge air from the aspirating slots. The elimination of dampers simplifies construction, lowers initial cost and eliminates the need for complicated control mechanisms

SIMPLE, MOST EFFICIENT CLASSROOM SYSTEM

The unique design of the Vulcan LINOVENTILATOR System provides all the requirements for classroom heating and ventilating with the fewest number of parts.

Mixing dampers and complicated control cycles have

been eliminated. No auxiliary radiation is required for night-time operation. Complete blanketing of windows automatically solves the "down-draft" problem. Here for the first time is a highly efficient quality heating-ventilating system at the lowest cost.



VULCAN LINOVENTILATOR UTILITY CABINET

Utility Cabinets also available for use with Vulcan Linovector Radiation in classrooms.

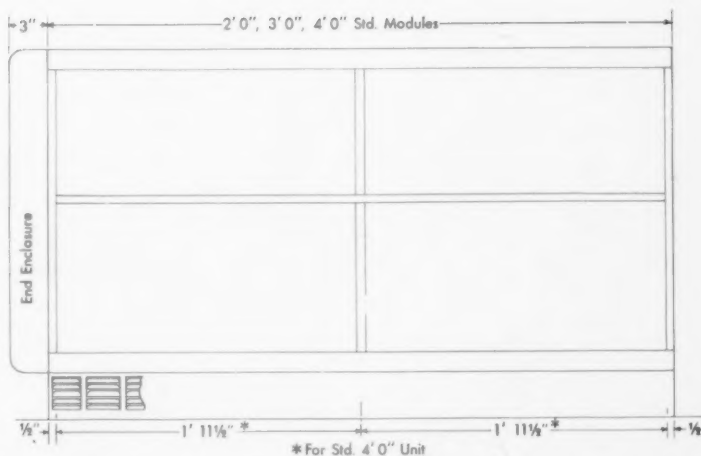
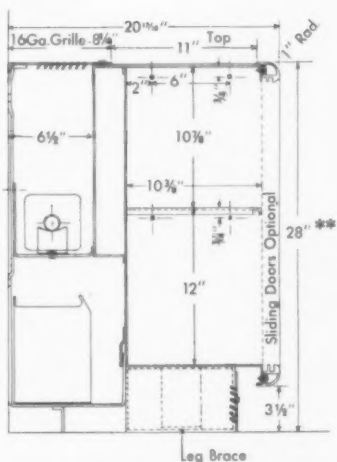


Cabinets are available in 2', 3' and 4' lengths, 28" and 32" heights, and may be used in various combinations, with or without doors.

Storage shelves will accommodate books and/or supplies up to 12" high.

The Utility Cabinets are fabricated of 16 ga. steel finished in a choice of 8 standard Vulcan baked enamel colors with matching inlaid Formica tops. (See Vulcan Color Guide.)

For wall-to-wall installations, an additional filler piece is supplied 24" in length, which may be cut in the field to exact requirements. A rounded end enclosure is provided for installations which terminate short of the walls.



** FOR LINOVENTILATOR INSTALLATIONS OF OTHER THAN STANDARD 28" HEIGHT, SPECIFICATIONS FOR UTILITY CABINETS SHOULD BE OBTAINED FROM THE FACTORY.

Fig. 1

BUILT-IN ENCLOSURES (by others)

In some instances, architects may wish to specify wood cabinets fabricated by the contractor. The design of such cabinets will naturally depend on individual preference and local conditions. Figure 2 indicates the general dimensional requirements to provide inlet air opening suitable for correct Linoventilator performance. The section of cabinet in front of the power unit should be removable to provide for service access.

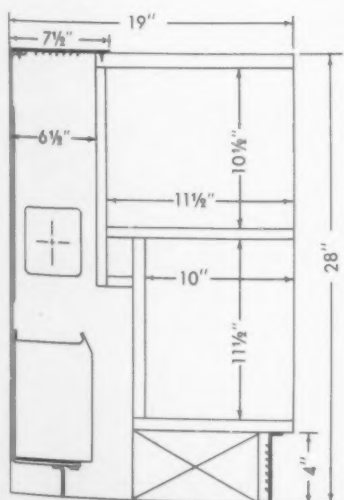
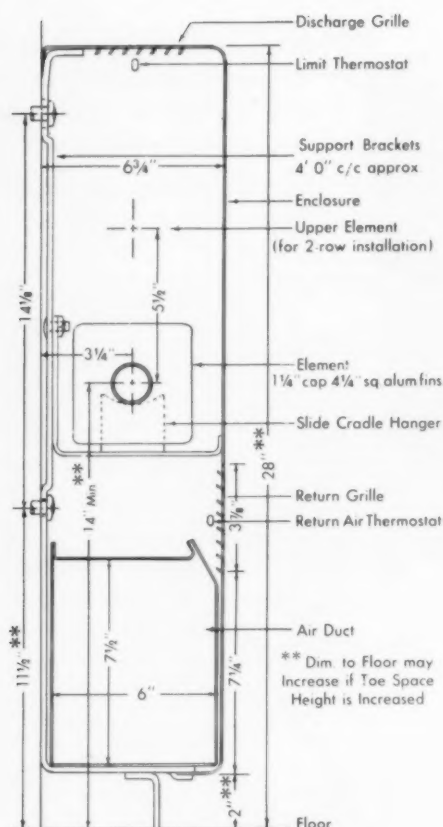


Fig. 2

The VULCAN LINOVENTILATOR SYSTEM

SPECIFICATIONS—DIMENSIONAL DATA



NOTE: All flush joints, rounded end enclosures. Dummy Filler Strip available for wall-to-wall installations.

HEATING ELEMENTS

- ... 1 1/4" Cop. 4 1/4" square A1. Fins
- ... 32 - 40 - 48 - 60 Fins/ft.
- ... 1 or 2-row high
- ... 12', 16', 20', 24' long
- For steam operation, element is equipped with inner distributing tube.

SUPPORT BRACKETS and HANGERS

- ... 3/16" x 1 1/2" heavy steel bracket
- ... approx. 4' center to center
- ... Slide Cradle Hangers

AIR DUCT

- ... 12', 16', 20' or 24' long
- ... Air discharge slot entire length
- ... Furnished in 4' and 8' lengths (installed in the field)

ENCLOSURE

- ... 16 gage zinc-coated, rust-resistant, bonderized steel
- ... 28" high, 6 3/4" wide
- ... 12', 16', 20', 24' long
- ... louvre inlet grille in front
- ... louvre outlet grille on top
- ... 2" toe space

POWER UNIT COVER

- ... 4' long, 28" high, 6 3/4" deep
- ... 16 gage steel with access door provided

BLOWER—MOTOR

Direct Connected 825 rpm

MOTOR — 16' 0"	1/4 hp - 1 ph	115v
20' 0"	1/4 hp - 1 ph	115v
24' 0"	1/4 hp - 1 ph	115v
28' 0"	1/4 hp - 1 ph	115v

FILTER

... 14 1/4" x 14 1/2" x 1" Throw Away Type Fiberglass

CONTROLS (Optional)

AIR DELIVERY (Standard Air)

Overall Length	Blower	Total
16'	300	650
20'	400	880
24'	500	1090
28'	600	1300

POWER UNIT FRAME

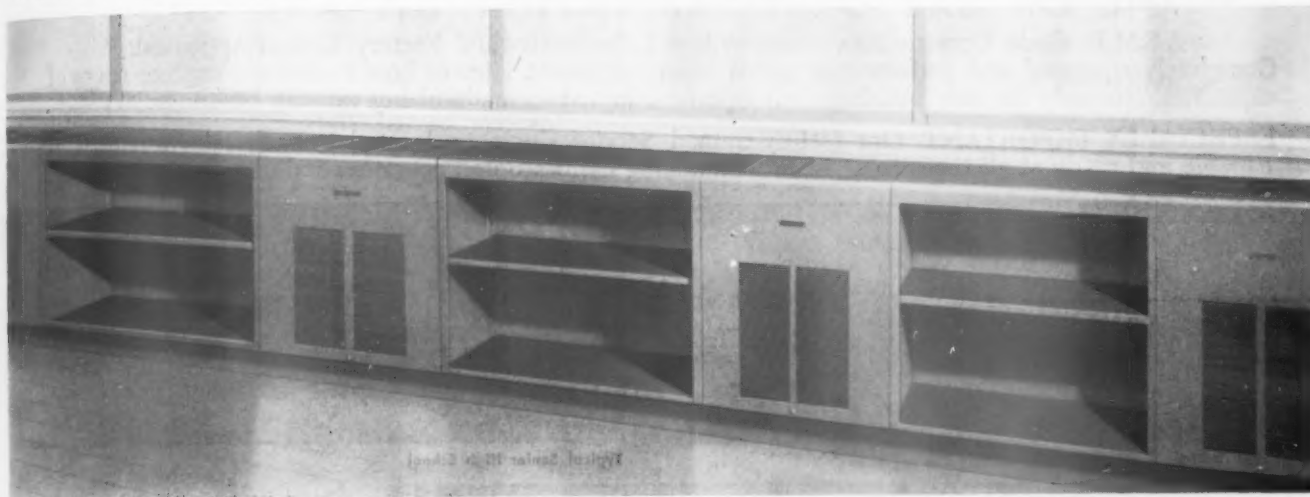
For Complete Engineering Data Write For:
The VULCAN LINOVENTILATOR ENGINEERING MANUAL 601-B

ELECTROMODE

DIVISION OF COMMERCIAL CONTROLS CORPORATION

570 Culver Road, Rochester 3, New York

MANUFACTURER of COMPLETE LINE of ELECTRIC SPACE HEATING EQUIPMENT



ELECTROMODE *All-Electric* HEATER-VENTILATOR SAFE-CLEAN-CONTROLLED HEAT for SCHOOL CLASSROOMS

The Electromode all-electric Heater-Ventilator is designed for those locations, where in addition to application of heat to maintain desired inside temperature, a positive circulation of outside air for ventilation is required at certain times. The unique design affords circulation of a fixed quantity of filtered tempered outside air for ventilation when desired. Air is circulated by a quiet blower with remarkably little

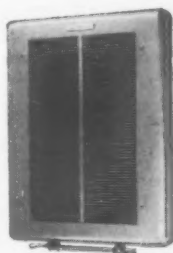
variation in outside air quantity under extremes of dirt loaded filter. The heating furnished by the Electromode cast aluminum grid offers the most reliable and safest heat source. A thermostat integral with the unit controls the temperature of the outside air admitted for ventilation purposes adjustable from 40° to 90° F.



ELECTROMODE RADIANT CABLE

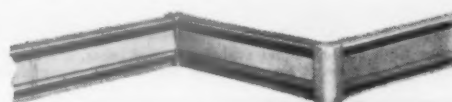
Here the Electromode Electric Heating Cable keeps the floor comfortably warm during rest period of a kindergarten class. The cable may be installed in concrete floors, or plaster or drywall ceiling construction. It is completely safe, silent, and controlled by wall-mounted thermostat.

ELECTRO- MODE WALL-TYPE DOWN-FLO ELECTRIC HEATER



In addition to classrooms, this model is suitable for use in offices, corridors, cafeterias, etc. Heat is fan-circulated at floor level. Available in 1500, 2000, 3000, and 4000 watt capacities. Automatic models have built-in thermostat. Pleasing silver grey hammertone finish easy to keep clean. The Electromode exclusive cast aluminum heating element provides complete safety from fire, shock, or burn.

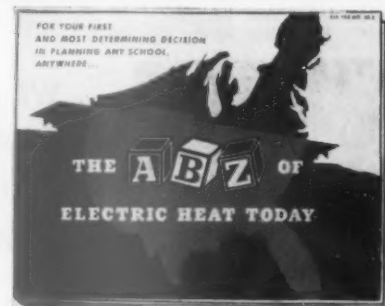
Detailed Specifications and Engineering Help on All Models Gladly Furnished.



ELECTROMODE BASEBOARD Electric HEAT

These heaters spread a shield of comfortable, radiant warmth along outer walls, under windows, and across the floor, thermostatically controlled at the temperature desired. Matching fittings permit carrying out pleasing, unbroken baseboard effect in any size or design room.

WRITE
FOR
FREE
BOOK





JOHNSTON BROTHERS, INC.

Ferrysburg, Michigan

ESTABLISHED 1864

MODERN BOILERS FOR MODERN SCHOOLS FULLY AUTOMATIC . . . SELF-CONTAINED OIL OR GAS OR COMBINATION OIL AND GAS

A.S.M.E. Code Construction. Underwriters Laboratories and Factory Mutual Approved. Completely equipped and performance tested before shipment. High or Low Pressure; complete range of capacities. Not only for new buildings but equally adapted to modernizing existing buildings.

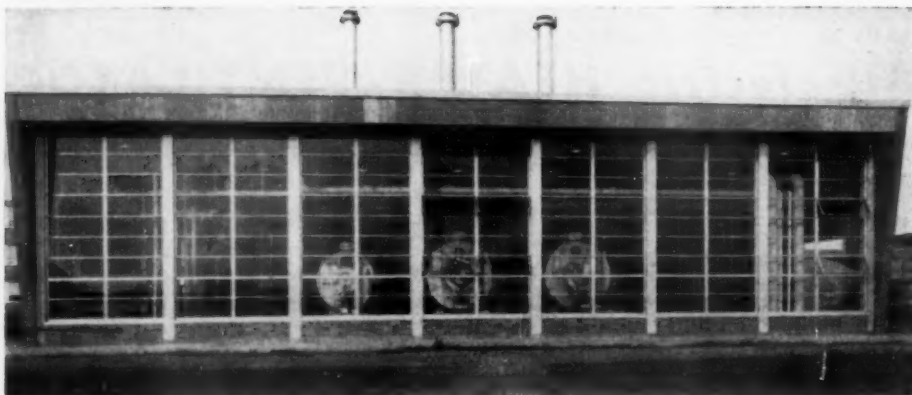
ESPECIALLY IMPORTANT. Our factory-trained Service Engineer, located in each sales territory, is capable and ready at all times to assist in maintaining uninterrupted operation and capacity continually.



Junior High School



Typical Senior High School

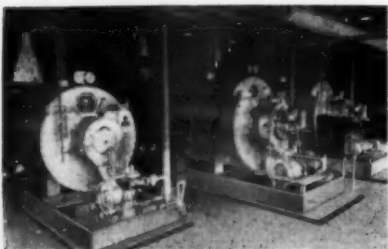


Senior High School. Glass enclosed boiler room. 1 No. 22 x 250 horsepower hot water boiler for domestic service. Gas fired. 2 No. 30 x 500 horsepower steam boilers for heating. Heavy oil fuel.

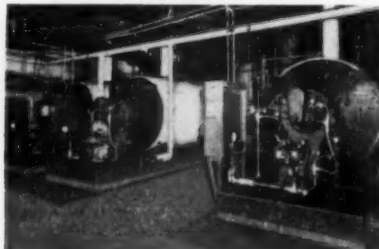
Illustrations herewith show Johnston Automatic Boilers meeting all requirements for varying capacities, fuels and available space.

Hundreds of these are in service from Coast to Coast; specified by prominent Architects and Consulting Engineers and all proving EFFICIENT, TROUBLE-FREE AND DEPENDABLE.

Send for Catalogue 509-A



1—250 Horsepower. Gas Fuel.
2—500 Horsepower. Heavy Oil Fuel.



3—No. 16 x 125 Horsepower.
Combination Oil and Gas Fuels.

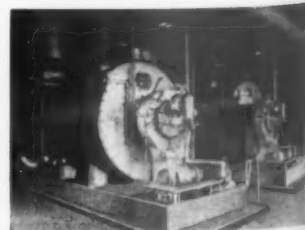


1—No. 28 x 400 Horsepower.
Heavy Oil Fuel.



No. 26 x 350 H.P.
Heavy Oil Fuel.

WE ALSO BUILD STANDARD SCOTCH AND FIREBOX BOILERS, FOR STOKER, OIL, OR GAS FIRING. FULLY GUARANTEED FOR QUALITY, PERFORMANCE AND SERVICE

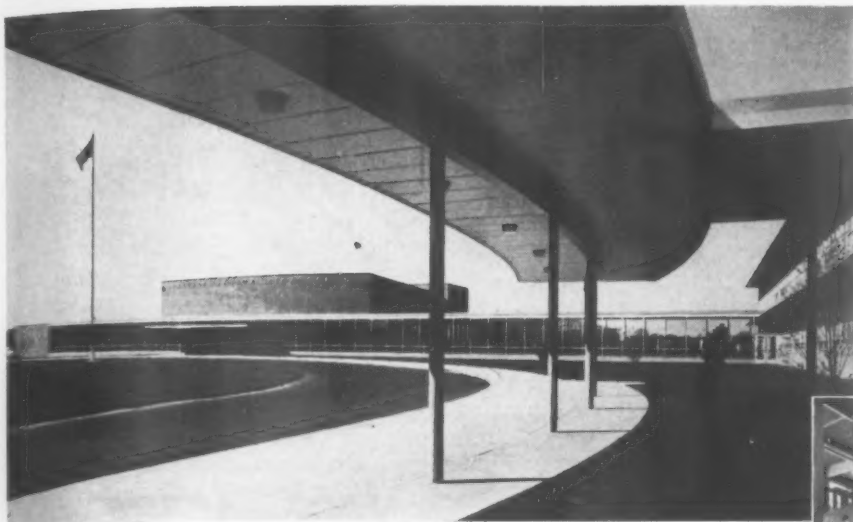


2—No. 30 x 500 H.P.
Heavy Oil Fuel.



THE INTERNATIONAL BOILER WORKS CO.

200 Birch Street, East Stroudsburg, Pennsylvania



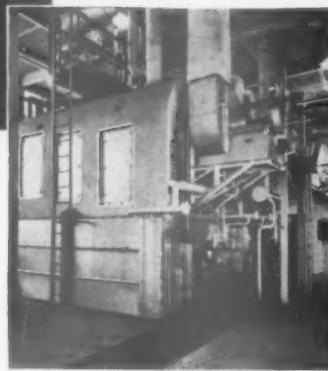
**CARLISLE
SENIOR HIGH SCHOOL
CARLISLE, PA.**

*Another Modern School
Heated by*

**INTERNATIONAL
WATER TUBE BOILERS**

All of the Carlisle Senior High School's steam heating and hot water requirements are met with two dependable International oil fired boilers. Even in the coldest weather, their unusual overload capacity assures abundant heat.

Schools and Universities all over the country are enjoying the benefits of International Water Tube Boiler performance—producing more steam, faster and at lower cost.



These two Type IDL special International Water Tube Boilers are rated at 84,000 sq. ft. steam E.D.R. each, and have an instantaneous copper hot water heating coil capacity of 4200 gph.

3 NEW WATER TUBE Package Units by INTERNATIONAL

the COAL-PAK AUTOMATIC First FULLY AUTOMATIC package unit complete with combustion controls, automatic coal feed and ash removal system, for burning LOW COST BITUMINOUS COAL cleanly and efficiently. Write for Bulletin 1100.

the COMPAK First FORCED DRAFT water tube package unit with a price tag EQUAL TO OR BELOW firetube scotch package boilers. For low or high pressure requirements, oil or gas fired. Write for Bulletin 1200.

the THERMOJET First FORCED RECIRCULATION package unit that actually requires LESS HEADROOM than modified scotch package boilers. Famous La MONT boiler design specifically adapted for SINGLE BUILDING low or high temperature water heating systems. Write for Bulletin 1000.

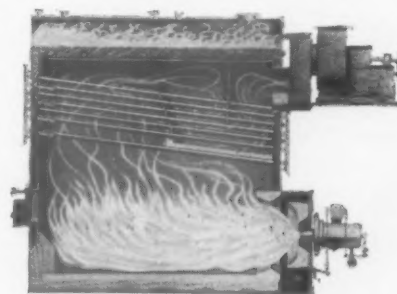
Get the facts from your

INTERNATIONAL DISTRICT REPRESENTATIVE

or write for Bulletins listed above

Water Tube Design

. . . the key to



. . . superior performance

International Water Tube Boilers are noted for their large furnace volume and low heat release rates which provide reserve capacity for heavy overloads. In addition, turbulent three-pass gas flow over banks of inclined water tubes assures maximum boiler efficiency and greater fuel economy.

LENNOX INDUSTRIES INC.

manufacturer of warm air heating, ventilating and central air conditioning

*Marshalltown and Des Moines, Ia.; Syracuse, N. Y.; Columbus, O.; Decatur, Ga.; Ft. Worth, Tex.;
Los Angeles, Calif.; Salt Lake City, Utah. In Canada: Toronto, Montreal, Calgary, Vancouver.*

New for schools, from the world leader in warm air heating for homes . . .

Fresh Air Heating, Ventilating that is

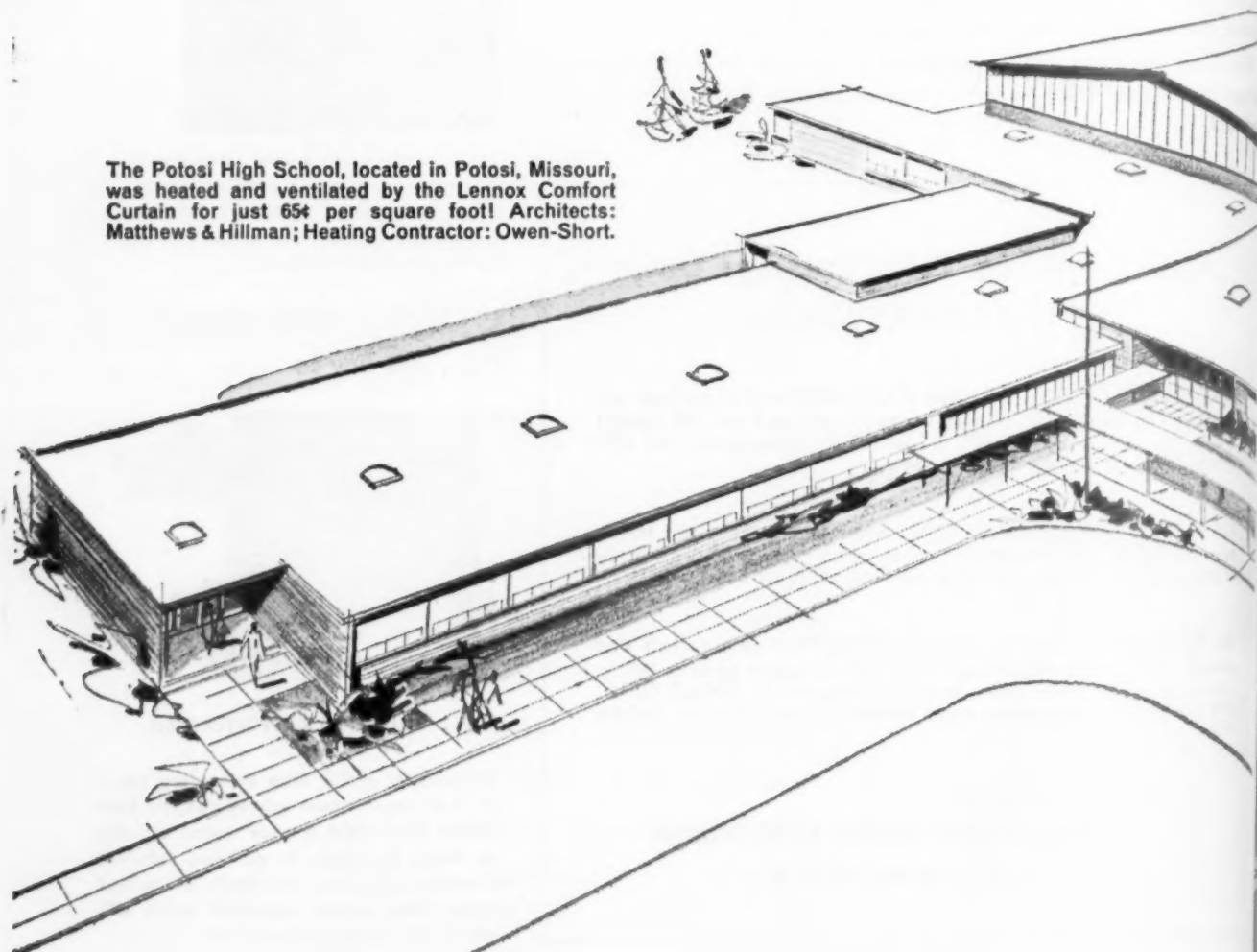
New Lennox Comfort Curtain System automatically draws in fresh air from outside . . . warms, cleans and circulates air quietly and evenly throughout the classroom!

Hard to believe, isn't it?—that after all these years a new and better fresh air heating and ventilating system can be installed for a fraction of the cost of systems used previously. Yet it's true! 65¢ per square foot was the complete cost of the Lennox Comfort Curtain System in the Potosi, Missouri High School. Including fully automatic controls, ductwork, labor—everything!

Of course, 65¢ per square foot is unusually low, even for the Comfort Curtain. But costs of \$1.03 in Indiana, \$1.15 in Montana, and \$1.12 in South Dakota are usual and typical of the amazing savings offered by the Lennox Comfort Curtain.

How is this possible? The Lennox Comfort Curtain System applies to schools the sound, tested principles of warm air heating. It eliminates expensive pipes, boilers and chimneys. Moreover, it saves hundreds of dollars per classroom per year every year it is in use. Fuel is consumed only when heat is required, maintenance is amazingly simple and low-cost. Yet—and this is important—the Lennox Comfort Curtain System

The Potosi High School, located in Potosi, Missouri, was heated and ventilated by the Lennox Comfort Curtain for just 65¢ per square foot! Architects: Matthews & Hillman; Heating Contractor: Owen-Short.



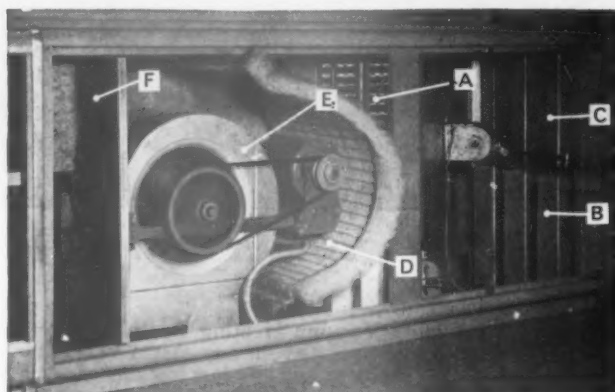
LENNOX INDUSTRIES INC.

Far More Efficient, Costs Far Less!

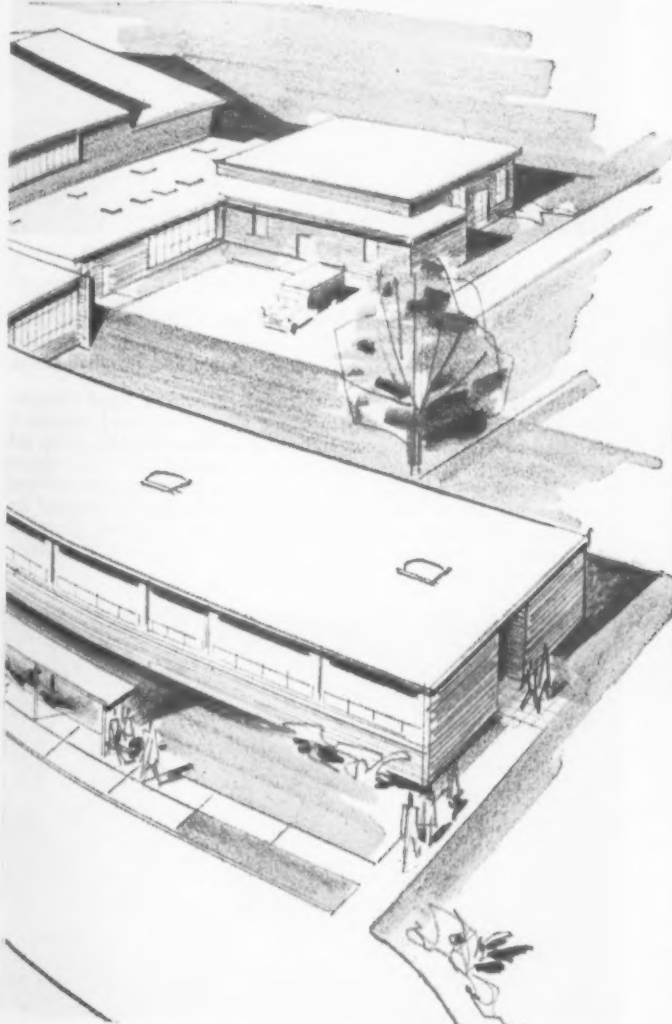
does a far better job than costlier systems used previously for school heating and ventilating.

It provides a full, even flow of air throughout the entire length of the exposed classroom wall. It is amazingly quiet. And it holds room temperatures to a variance of six-tenths of one degree, circulates air continuously for perfect distribution, introduces a continuous supply of fresh air into the daytime heating cycle, and provides tons of needed fresh air cooling without the cost of refrigeration!

Get full information on this new low-cost system of classroom heating and ventilating.



Lennox Air Processing Unit introduces fresh air in adjustable volumes (A); transmits warm air (B) from adjacent or remote heating unit; continuously recirculates indoor air (C); filters air clean (D). Lennox' exclusive floating blower (E) and acoustical lining (F) assure a degree of quietness never before achieved.



A comfort curtain of healthful air rises from bookshelf duct along the full length of the exposed classroom wall in this Des Moines, Iowa school.

Write today for complete information

on the Lennox Comfort Curtain System. Providing efficient classroom heating and ventilating at unheard-of savings, it's one big answer to today's school building costs. Write:

Lennox Industries Inc.
Dept. AS-81
1701 E. Euclid Ave., Des Moines 5, Iowa

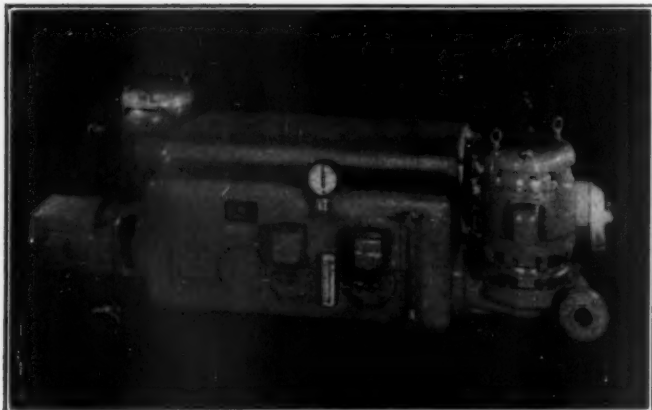
LENNOX

©1958 Lennox Industries Inc., Heating and Air Conditioning, founded 1895; Des Moines and Marshalltown, Ia.; Syracuse, N.Y.; Columbus, O.; Decatur, Ga.; Ft. Worth; Los Angeles; Salt Lake City. In Canada: Toronto, Montreal, Calgary, Vancouver, Winnipeg.

THE NASH ENGINEERING COMPANY

222 Wilson Road, South Norwalk, Conn., U.S.A.

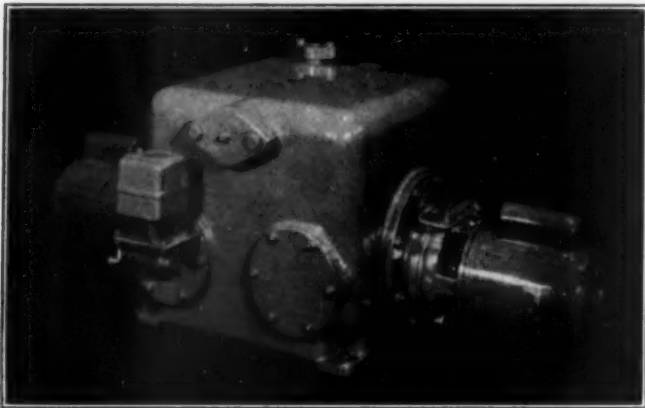
SALES AND SERVICE OFFICES IN ALL PRINCIPAL CITIES



RETURN LINE VACUUM HEATING PUMP CSI TYPE

Now a Nash quality Vacuum Heating Pump can be economically installed and operated on any steam heating job. Engineered for high performance and low installed first cost, this new pump still makes use of time tested Nash principles of operation.

The Nash CSI has generous air capacity and features a wide choice of water capacities and discharge pressures. The right combination of capacities is at hand to match the requirements of the job. It is no longer necessary to pay extra for a pump with excessive water capacity, excessive discharge pressure, or in an attempt to get adequate air capacity. Capacities to 40,000 sq. ft. E.D.R. Bulletin on request.



NASH HOSPITAL PUMPS

For vacuum and pressure systems in hospitals to provide vacuum or pressure to operating rooms, laboratories and wards. Nash pumps possess particular characteristics adapting them to this exacting service. Silent service is assured, because the pumps and equipment are installed in a mechanical equipment room. Automatic control assures constant maintenance of the correct vacuum or pressure. No pulsation is present in either vacuum or pressure produced by Nash Pumps. Air delivered by Nash Compressors is entirely free from dust, heat or oil. Even dust entering the pump inlet is effectively removed. No oil or dust filters are required. No expert attendance is required. Bulletin on request.

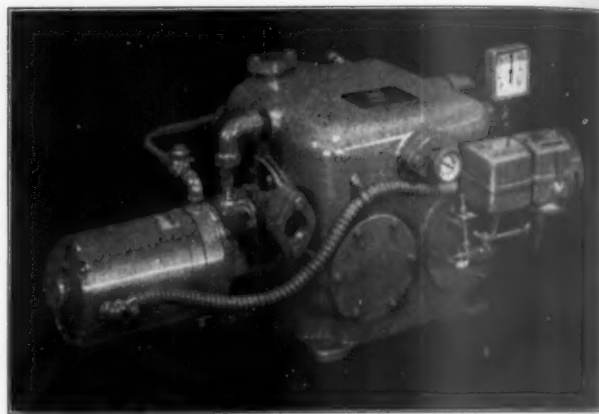
AMERICAN SCHOOL AND UNIVERSITY—1958-59

RETURN LINE VACUUM HEATING PUMP TYPE CSM

The new CSM Heating Pump achieves a high level of performance and efficiency. Complete flexibility is secured in this design, since each pumping element is driven by its own motor, actuated by its own control.

This makes possible a wide range of air and water capacities that can be selected to meet the exact requirements of each particular job.

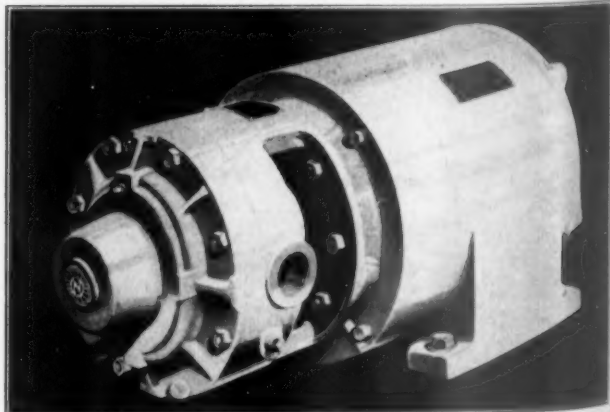
These pumps are now available in a full range of air and water capacity combinations, for operation up to 20 inches Hg vacuum, and for pressures from 10 lbs to 70 lbs. Bulletin on request.



CONDENSATION PUMP TYPE CS

Following the advanced design of our CSM Heating Pumps, the CS Condensation Pump has features representing long life, dependable operation and low maintenance and installation cost.

Pump is single suction centrifugal in bronze fitted construction with renewable bronze sealing rings. Balanced impeller is designed for high efficiency handling hot condensate. Pump and motor form a compact unit. Simple mechanical seal replaces conventional stuffing box, eliminating maintenance. Strainer area nearly three times that in previous pumps. Easily removed for cleaning. Inlet connection is only 12, 14 or 15 inches, depending upon size of unit, permitting easy and low cost installation. Bulletin on request.



*Rittling***THE RITTLING CORPORATION**

105 Kentucky Street, Buffalo 5, N. Y.

Representatives in Principal Cities

Rittling

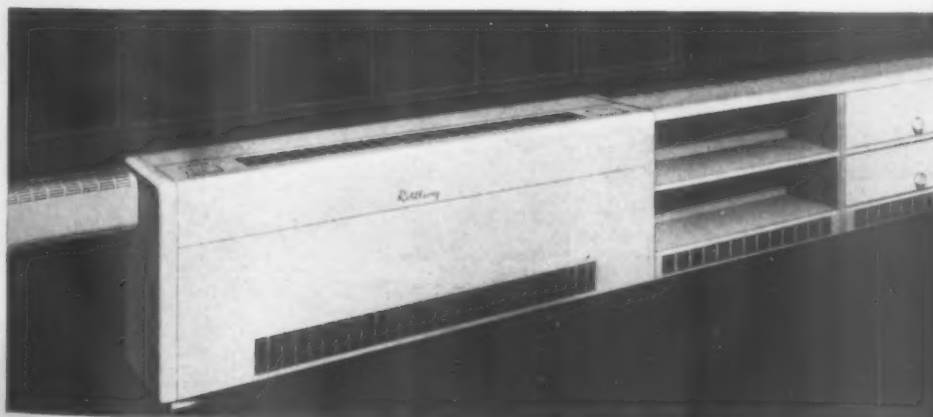
Manufacturers of Rittling Schoolmaster Unit Ventilators, Area Vents, Horizontal, Vertical and Cabinet Unit Heaters, Industrial Finned Radiation and Enclosures, Sil-N-Wall Radiation, Baseboard Radiation, Cabinet Convectors and Back Draft Dampers

**NATIONAL RECOGNITION ACCORDED
SALAMANCA HIGH SCHOOL
EQUIPPED WITH SEVENTY-NINE
RITTLING CLASSROOM
UNIT VENTILATORS**



Selection of the Salamanca Junior-Senior High School by the American Association of School Administrators for its 1958 exhibit is a tribute to its architectural concept...in design...in construction...in equipment.

Its classrooms are equipped with seventy-nine RITTLING Unit Ventilators which provide for the comfort and health of those who teach and those who learn. Several of the units are now equipped for mechanical cooling and all are arranged for future installation if desired.



RITTLING SCHOOLMASTER Unit Ventilators heat, cool, ventilate, filter, and circulate to assure ideal classroom climate. Performance has been approved by hundreds of units functioning under America's wide variety of climatic conditions...north, south, east, and west.

RITTLING SCHOOLMASTER Unit Ventilators are made in FIVE sizes and a complete line of unitized storage cabinets and auxiliary radiation. This provides the architect and engineer with latitude, accuracy, and economy in specifying.

Advanced features and basic data are given in RITTLING SCHOOLMASTER Catalog No. UV-1157 available from the factory or RITTLING Representatives.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

Architects:

Pfohl, Stoll and Roberts, Buffalo, N. Y.

Heating Engineers:

Beman and Candee, Buffalo, N. Y.

Heating Contractor:

James E. Reid, Buffalo, N. Y.

General Contractor:

The John W. Cowper Co., Inc.
Buffalo, N. Y.

Write for
RITTLING
Catalogs on Unit
Ventilators,
Silvector
Radiation,
Convectors,
Unit Heaters

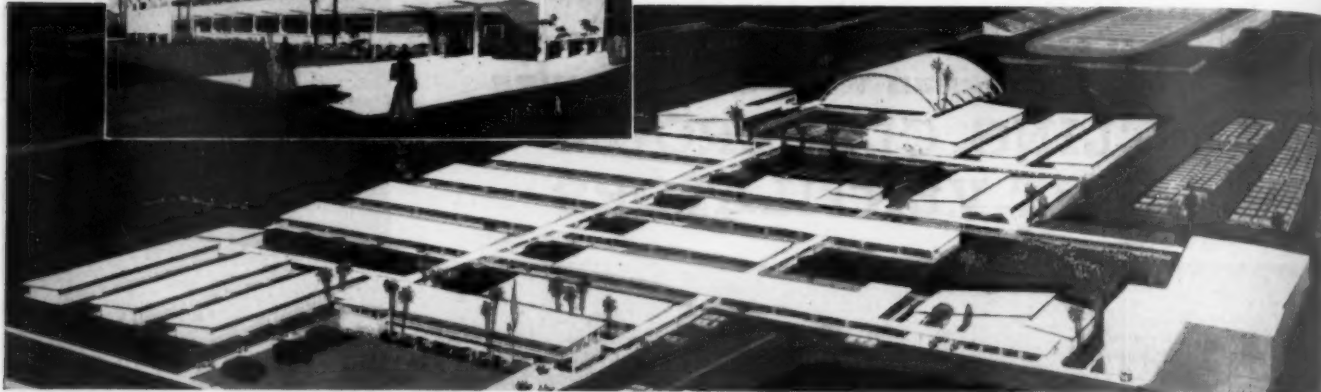


H. B. SMITH COMPANY, INC.,

Westfield, Massachusetts
Established 1853



Left: Architectural detail points up large fenestration areas which permit generous use of natural light. Below: Panoramic sketch shows large land space covered, which dictated the use of vacuum pumps to aid in steam distribution. Harry T. MacDonald, Los Angeles, is the architect and Storms and Lowe, Los Angeles, are the mechanical engineers.

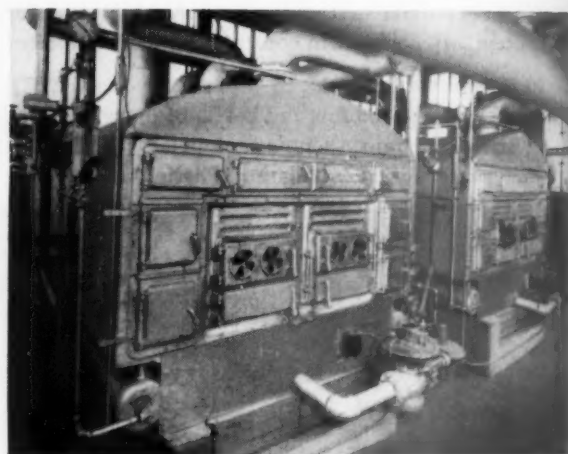


14 buildings in the Earl Warren High School are heated by 2 H. B. Smith Boilers

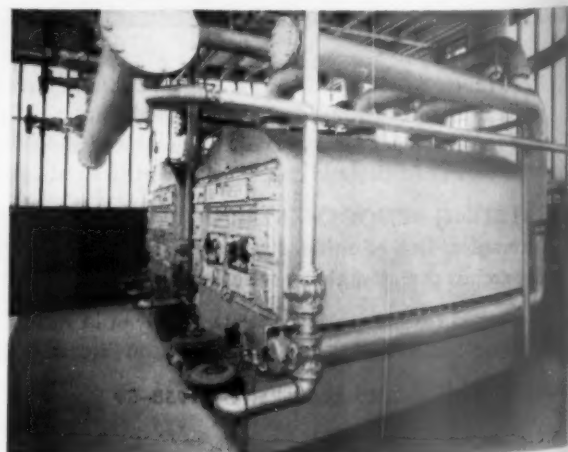
The Earl Warren Senior High School is the pride of the Downey Union High School District of Downey, California. It should be — it's one of the most modern schools in the world! The architect's drawings above show the vast area covered, the orderly layout of the buildings, the fresh architectural approach and the generous recreational facilities.

Two No. 60 20-section H. B. Smith boilers supply adequate heat and domestic hot water for the 14 buildings now standing. Boiler room space has been provided for two more boilers which will be added when nine or ten new buildings are erected. The two boilers now in service are fired by natural gas. The heating medium is steam, circulated through underground conduit to the various buildings. Automatic vacuum return pumps are placed at critical locations throughout the plant.

Consulting Engineers Storms & Lowe, Los Angeles, did not hesitate to specify H. B. Smith cast iron boilers for this huge task. For many years H. B. Smith boilers have set performance records in schools, churches, hospitals, stores and other commercial and industrial buildings.



Here are two views of the No. 60 H. B. Smith boilers, showing the orderly, compact installation. Observe that only a very small percentage of costly building space had to be allotted to the school's boiler room, as H. B. Smith boilers have integral water tubes which do not require periodic replacement.



H.B. Smith
CAST IRON BOILERS

SPENCER HEATER

Lycoming Division—AVCO Manufacturing Corporation

Home office and factory—Williamsport, Pa.

Manufacturers of Commercial and Residential steel heating boilers. For oil, gas and solid fuels. Packaged oil and gas fired units.

CHOOSE THE SPENCER "LW"

DIVIDED • LOW WATERLINE BOILER

U.S. PATENT
NO. 2707942

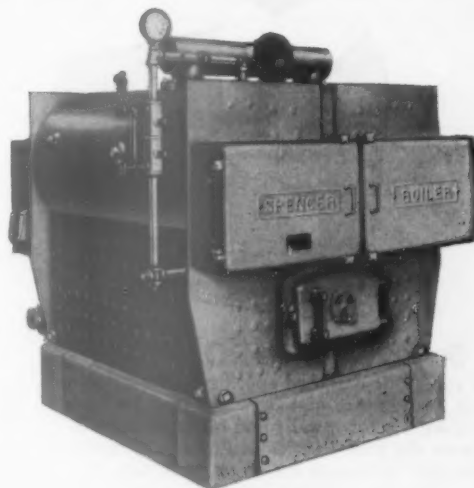
**TO SOLVE MAJOR HEATING PROBLEMS IN REPLACEMENT
ENTRY, HEADROOM, WATERLINE AND EXCAVATION.**

In existing buildings—divided design permits entry through narrow basement openings. No tearing out of walls. The two watertight sections can be moved separately, yet require no welding for installation. See entry dimensions below.

In new buildings—overall height of the "LW" is approximately 25% less than conventional firebox boilers . . . makes possible lower basement ceilings . . . cuts down excavation expense.

Quiet—well proportioned extra high firebox allows complete smooth burning of fuels within firebox at atmospheric pressure.

Efficient—5" waterlegs for positive water circulation, extra large number of staggered firetubes provides especially fast steaming feature with very low draft loss and stack temperature.



OTHER UNIQUE FEATURES

• INSULATION CLIPS

• REMOVABLE MAINTENANCE
AND INSPECTION PANELS IN
SMOKEBOX

• PRECISION GROUND DOORS

• FRONT, REAR, TOP OR END
OUTLET HEADER CONNECTIONS

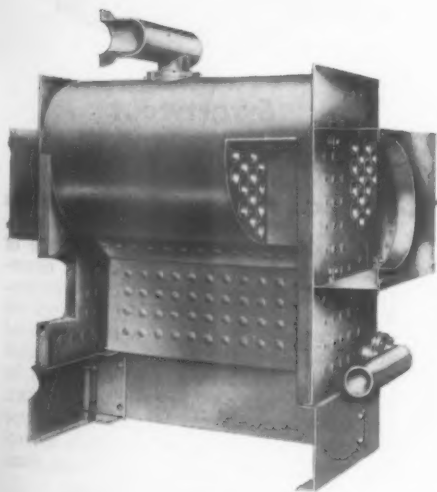


Illustration shows one watertight section with cutaway headers, smokebox and base.

BOILER SECTION ENTRY DIMENSIONS

Boiler Capacities S.B.I. Ratings sq. ft. steam	Dimensions in inches	
	Width	Height
2,680 to 3,650	24	48
4,250 to 5,470	30	53
6,080 to 8,500	35	60
10,300 to 12,150	40	68
15,180 to 18,220	42 1/2	75
21,250 to 24,290	47 1/2	83 1/2
30,360 to 42,500	55	100

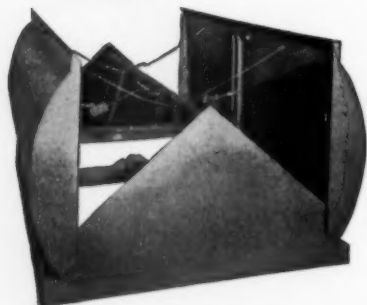
THE SWARTWOUT COMPANY

18527 Euclid Avenue

Cleveland 12, Ohio, U. S. A.

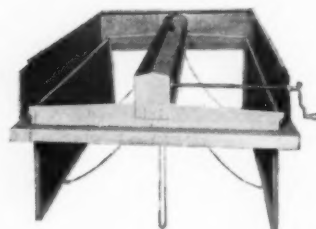
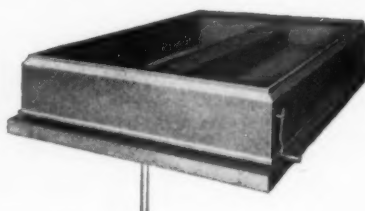
Representatives In All Principal Cities

Swartwout Products for SAFETY STAGE VENTILATION



Swartwout PYROJECTOR

A roof unit designed specifically for releasing heat, smoke and fumes in the event of fire. Pyrojector installs and operates entirely above the roof line; is designed as a safety "escape" ventilator for stages, corridors, etc. Two double-wall dampers are opened outward by powerful coil springs when a fusible link (Underwriters-approved) melts. This creates a roof opening of 28 sq. ft. Snubber springs and chains prevent dampers from opening past the vertical position where they help provide a stack effect. The unit is completely weatherproof when closed. Overall dimensions, 56" wide by 91" long, 26" high above curb.



Swartwout FIRE VALVE

This unit serves the same purpose as the Pyrojector, but presents a lower silhouette on the roof while providing more free area opening per unit (46 sq. ft.). Two large dampers drop open when released by fusible link. Dampers require 29" clearance below top of curb. Dampers can also be opened and closed by a chain when desirable to use the unit for extra ventilation in dry weather. The unit is weatherproof when closed. The Fire Valve is only 21" high and mounts on a roof curb 6'5" x 10'5". Damper hinges contain no parts that will corrode or freeze in any way.



Swartwout

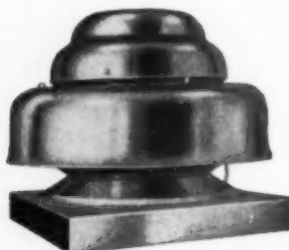
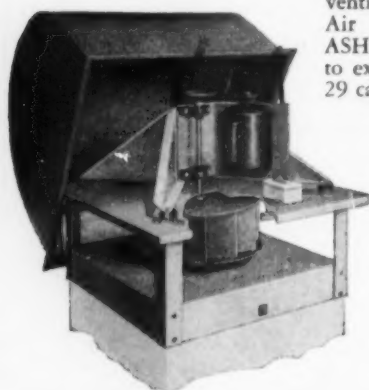
Contouramic AIRMOVER

A highly efficient roof ventilator particularly suitable for schools, auditoriums, gymnasiums, etc. Because of its low height—21½"—air travel is short, and air friction is reduced to a minimum. This is the lowest ventilator known; is hardly noticeable from the ground. Weatherproof at all times, with ample drainage. Efficient dampers, operated in unison, can be adjusted to any opening desired.

In addition to serving as an excellent gravity flow ventilator, the Contouramic Airmover is equipped with fusible links on the damper control bar of each unit, thus making it a fire hazard safety device meeting the requirement of the National Board of Fire Underwriters. All dampers are weighted and swing open on easy-running nylon bearings when excessive heat melts the fusible links.

The efficient, silent AIRLIFT for duct exhaust

Utilizing low fan tip speeds and backwardly curved blades in a highly efficient centrifugal type fan, Airlift achieves the desired low-noise-level operation for duct exhaust on public buildings. Important design and structural features are fully covered in our Airlift Bulletin. Most important are the close coupling of fan and throat, and oversize exhaust area which permits a lower curb. Entire assembly insures positive exhaust with minimum friction and turbulence, and unusually quiet operation. Airlift's higher efficiency often permits use of smaller units than ordinarily specified in other centrifugal ventilators. Made in 14 sizes with 49 capacity variations. Air deliveries are certified in accordance with the ASH&VE Code . . . The Direct Drive Airlift serves to exhaust from smaller areas—is made in 5 sizes with 29 capacity variations.



Swartwout

Gravity LOW-LINE

A ventilator of the downward deflecting type designed for use where low contour is desirable. Can be used for either intake or exhaust purposes, but is particularly recommended for school buildings to protect outlets of duct systems exhausting corridors and other spaces. The nicely proportioned hood provides oversize outlet area, and is designed for smooth, unobstructed air-flow. Can be furnished with counter-weighted damper. Automatic or motor operated louver type dampers can be furnished for curb mounting. Low-Line is made in 11 throat sizes.

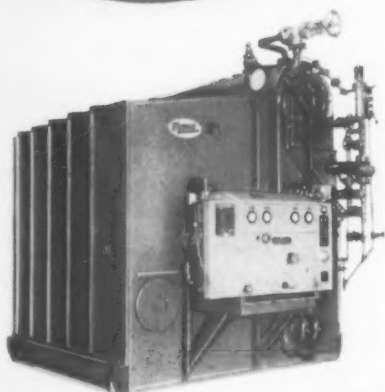
Write for catalog sections fully describing these Swartwout Products



TITUSVILLE IRON WORKS

Division of Struthers Wells Corporation

Titusville, Pennsylvania

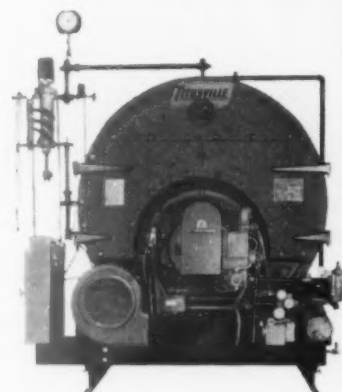


TITUSVILLE TYPE WTP Packaged Steam Generator

This compact, shop-assembled water-tube steam generator features simplicity and economy of operation, from 10,000 to 60,000 lbs of steam per hour. It is shipped as a package complete with firing equipment, controls and all other components installed ready for service connections in the field. Enclosed and protected by all-welded, pressure-tight steel casing, the unit is easy to move by lifting or skidding, and erection costs are reduced to a very low minimum. Forced draft, pressurized furnace operation eliminates need for stack or induced draft fan. The Titusville WTP Steam Generator is designed to use heavy oil; heavy oil and gas combination; light oil; light oil and gas combination; natural gas; manufactured gas; coke oven gas. Fully automatic welding is employed, welds are X-rayed, and drums stress-relieved. Bulletin B-3255.

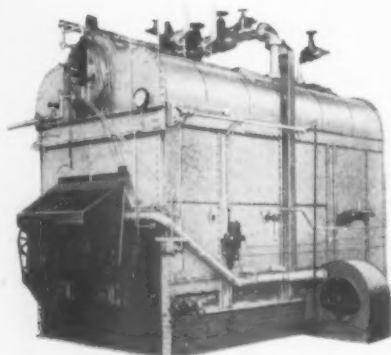
TITUSVILLE 3-PASS Scotch Marine Boilers

The Titusville 3-Pass Scotch Marine Boilers for power (S-3P) and heat (S-3H) are compact to the limits of practical size while maintaining excellent thermal qualities. Featuring complete wet-back construction, eliminating refractory problems, these modern boilers have water-cooled rear combustion chamber, large primary heating surface area, 3-pass tubes for maximum efficiency in heat extraction. Heat release rates of less than 88,000 BTU/cu ft of furnace volume at maximum continuous output ratings assure easy firing by all leading types of forced draft packaged burners. Pleasing appearance joins with practical design for ample access to all sections of boiler for inspection and maintenance. ASME power and heating boiler codes followed throughout in design and construction. Bulletin B-3333.



TITUSVILLE TICOTHERM STEAM GENERATORS

These large, highly efficient water tube steam generators are economical in operation and compact in design. They are constructed to meet or exceed a safety factor of 5, and drums are fusion welded, X-ray tested and stress relieved to meet or exceed ASME requirements as well as all local and state codes. Excellent results are achieved with any type of fuel. Ticotherm Steam Generators are completely insulated—top, sides and rear—with a minimum of 7 inches of refractory and insulation at side walls; boilers are completely steel encased. Four passes of gas travel are provided by vertical baffling, resulting in a minimum of draft loss and maximum heat absorption. Soot blowers are furnished as standard equipment on all boilers except gas-fired models. Bulletin B-3250-A.



TITUSVILLE ALL-WELDED FIREBOX BOILERS High and Low Pressures

The Titusville Compact Steel Heating Boiler (right) is compact in design, requiring less boiler room floor space than any other type. Excellent operating economies are obtainable, due to the unit's modern 3-pass construction feature. Built for use with all fuels and all types of firing—ample combustion space is provided to economically burn oil, gas, or coal. These all-steel boilers are manufactured in 19 different sizes, rated in accordance with latest rating code of The Steel Boiler Institute, constructed using ASME code rules. Bulletin No. B-3000-B. Type WP Titusville All-Welded Firebox Boiler, high pressure, (left) is all-welded, utilizing advanced welding methods, quality steels and modern fabricating techniques. A streamlined boiler of exceptional strength, it has no riveted seams or screwed stays, remains tight under all operating conditions. Self-cleaning crown sheet and ample clean-out facilities are included in the design. These boilers combine high efficiency and low maintenance in service, and are readily adaptable for burning all sizes of bituminous and anthracite coal, or, in the WPO Model, for using any recognized oil, gas or combination gas-oil burners. Bulletin No. B-3030.



Write for the descriptive bulletins in which you are interested—let us arrange to have our nearest representative call to consult on your heating or power boiler requirements—without obligation of any kind.



JOSEPH GODER INCINERATORS

4235 North Honore St., Chicago 13, Illinois

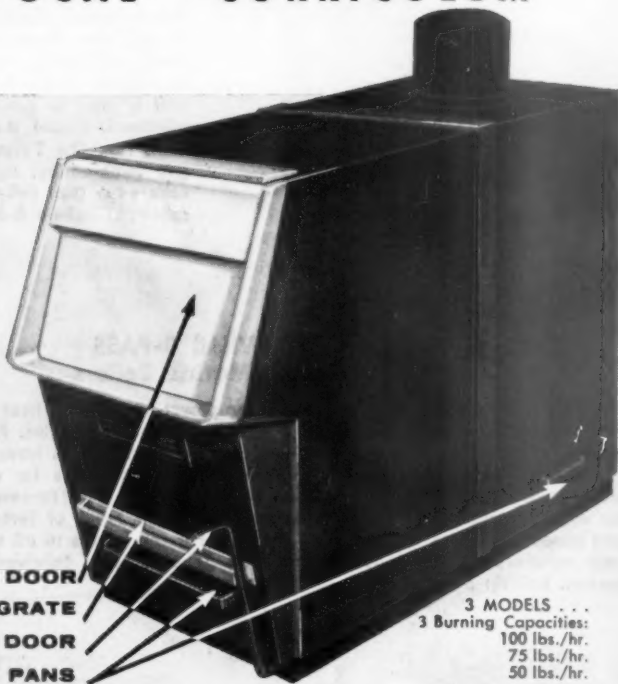


Leads its class IN EVERY
SCHOOL AND UNIVERSITY
WASTE-DISPOSAL "CURRICULUM"

New **JOSEPH GODER**
De Luxe **HEAVY-DUTY**
DISPOSALL

Designed for
CONTINUOUS BURNING
wherever 4 to 6 drums or more of burnable waste
accumulate per day

FRONT CHARGING DOOR
SLIDING ASH GRATE
FRONT PEDAL CHARGING DOOR
SLIDING ASH PANS



3 MODELS . . .
3 Burning Capacities:
100 lbs./hr.
75 lbs./hr.
50 lbs./hr.

NO ODOR . . .
NO SMOKE . . .
NO FLY ASH . . .
NO SPILLING . . .
NO DIRTY CLEAN-OUT WORK

SINCE 1951 OVER 2600
JOSEPH GODER INSTALLATIONS

have been specified by leading school
architects . . . proved their class leaders in
efficient performance and low-cost
maintenance. There's a Joseph Goder
Incinerator to fit *your* school need.

PORTABLE • ECONOMICAL • PERMANENT



WRITE TODAY FOR
FREE TECHNICAL BULLETINS

JOSEPH GODER INCINERATORS

AMERICAN SCHOOL AND UNIVERSITY—1958-59

Exclusive **NEW FEATURES** **and Advantages**

INCLINED GUILLOTINE DOOR

For direct safe loading. Big 17" x 18" waist high opening simplifies loading. Cast iron charging apron prevents spilling, directs waste onto inclined grate. Foot pedal opens, closes door, leaves both hands free.

INCLINE STEP GRATE

Staggers, spreads refuse for smoke-consuming fire. Reduced smoke, odor, heat loss, saves fuel and fuel dollars.

"CYCLO-VANE" ASH COLLECTOR

Meets rigid Air Pollution requirements, provides complete destruction of all combustible residue, settles fly ash for easy removal from drawer type ash pan in base. Eliminates shoveling and raking.

SLIDING ASH GRATE

For clean, easy ash removal. Keeps dust out of room.

HEAVY-DUTY CONSTRUCTION

For safe, efficient, economical burning, most heat conservation.



MORSE BOULGER DESTRUCTOR COMPANY

Dept. ASU, 80 Fifth Avenue, New York 11, N. Y.

EVERY SCHOOL SHOULD HAVE ENGINEERED INCINERATION

INCINERATION PROTECTS THE HEALTH
ELIMINATES A FIRE HAZARD — KEEPS THE SCHOOL CLEAN

The school that has a disposal problem—papers, garbage, refuse, manual training room chips and sawdust—that involves combustible wastes, etc.—should call upon incineration specialists to recommend the best type for the material to be incinerated. It is not sufficient to merely order any incinerator. Just any incinerator cannot handle all combinations of dry and wet materials or assure handling any single kind of waste effectively. Complete combustion should be the objective. Each unit has to be selected for the specific problem.

Morse Boulger offers to school authorities, their engineering staffs, architects and consulting engineers a service in connection with incineration that goes back to before the turn of the century. This experience covers the design and construction of incinerators for not only more than 5000 schools, but countless hospitals, apartments, hotels, stores, institutions, industrial plants as well as many cities and towns.

Three basic types out of more than a score, each with several variations, are recommended for school use and are discussed briefly here:

MORSE BOULGER TYPE E DESTRUCTOR

This is a general purpose incinerator, designed to handle miscellaneous wastes. Capacities range from 90 pounds to 500 pounds per hour. Larger sizes available in modified design.

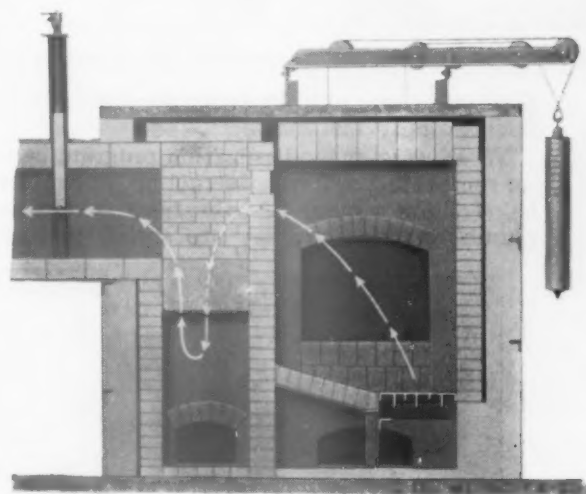
MORSE BOULGER TYPE U DESTRUCTOR

Designed for waste paper incineration but with a wet garbage content up to 20% permissible. An ideal unit for schools with cafeteria. Most commonly used size is the 75 pounds/hour unit. Larger sizes available.

TYPE RB 10 and RB 14 KERNERATORS

These are 'Ready-Built' units, designed to set on the floor of the basement and be connected to the furnace chimney by stove piping. The RB 10 has a capacity of 12.5 cubic feet, the RB 14 has 17.5 cubic feet. Both are exceptionally efficient portable type units.

Kernerator Type RB 10 and RB 14



Morse Boulger Model E

Morse
Boulger
Model U
→



CRANE CO.

GENERAL OFFICES: 836 S. MICHIGAN AVE., CHICAGO 5 • NATIONWIDE DISTRIBUTION THROUGH BRANCHES, WHOLESALERS, PLUMBING AND HEATING DEALERS

CRANE

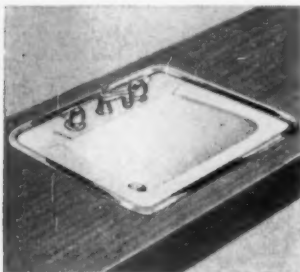
There's more of tomorrow in Crane School fixtures

Students come and students go—but school facilities must last for years.

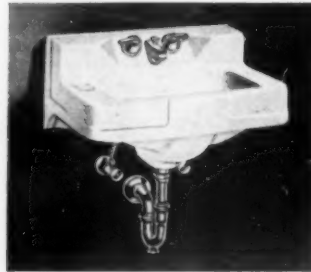
Whether your modernization program calls for remodeling or new construction, remember this—there's more of tomorrow in Crane plumbing fixtures. They are styled to look

modern years longer—engineered to last longer with less maintenance.

So look over the school and university fixtures shown here. Then ask your architect or plumbing contractor to get details from your Crane Branch or Crane Wholesaler.



New Charlotte counter-top lavatory. Ideal for faculty restrooms. Attractive Charlotte made of sturdy porcelain enameled cast iron with modified rectangular bowl. Dial-ese supply fittings. 20" x 18".



Oxford Lavatory 1-125-E. Smartly styled vitreous china. Rectangular basin with splash lip and soap depression. Chromium plated Whitney Dial-ese controls and direct lift waste. Sizes: 19" x 17", 20" x 14".



Norwich Lavatory 1-195-V. Versatile lavatory available with a choice of three leg heights to set the unit either 24", 27" or 31" high (rim to floor). Also available without leg and with or without back. Vitreous china with rectangular basin, splash lip, front overflow and two soap depressions. Dial-ese supply fitting with Neu-Spray spout. Sizes: 20" x 18" and 24" x 21".



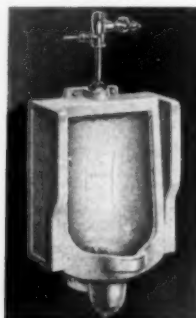
Walton Closet 3-450. Efficient Siphon jet closet with Sani-Black hard rubber open-front seat with check hinge. Elongated rim, top spud bowl. Manually operated flush valve. Also available with back spud and concealed flush valve.



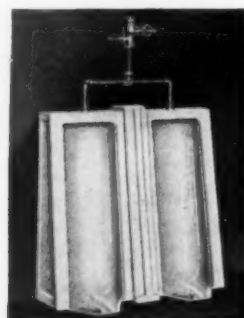
Santon Closet 3-300. Easy-to-clean closet with Sani-Black hard rubber open-front seat with check hinge. Siphon jet elongated rim. Top spud bowl. Manually operated flush valve with vacuum breaker. Also available in Santon Jr. model.



Hy-San Closet-Urinal 3-282-T. Modern, straddle-type woman's water closet-urinal with hygienic rim. Easy-to-clean vitreous china wall bowl with top inlet. Triumph flush valve has vacuum breaker. Top inlet.



Correcto Urinal 7-87-T. Space-saving vitreous china washout urinal with integral extended shields, flushing rim, strainer and trap with cleanout. Receding concave back to minimize splashing. Crane Triumph flush valve.

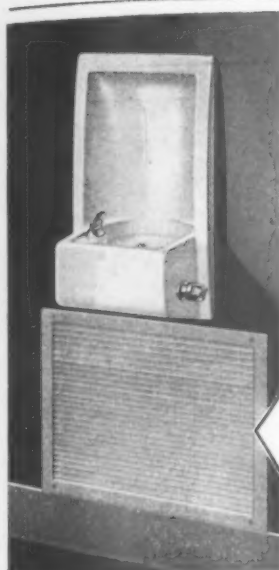


Sanitor Urinal 7-34. Vitreous china slope front, top inlet stall urinal with integral flushing rim. Furnished singly or in batteries of 2 or 3 with 1 flush valve and vitreous china seam covers. Also available with tank.

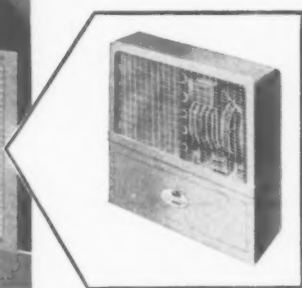


Expedio Urinal 7-104-T. Wall-hung vitreous china. Cuts mop-up time. Blowout action. 1 1/2" top inlet, 2" outlet connection. Triumph flush valve (9-405-W) with vacuum breaker. 1" lockshield stop and flush connection.

CRANE CO.



Wal-Pak Water Cooling Unit. Fits inside wall. Also installable in nearby closet or basement. Two sizes for supplying one or two fountains. Can supply fountain on adjoining floor. Costs no more than exposed coolers. Use with any Crane drinking fountain (Coolbrook fountain shown).



Clearstream Fountain 6-514. Small, modern-design vitreous china drinking fountain with integral strainer. Bubbler base located above receptor rim as safeguard against back siphonage. Purflo angle stream bubbler. Victor self-closing valve with Magiclose control unit, and access cover plate. Width 12". Projection 13".



Erie Fountain 6-590. Wall-hung, freezeproof fountain that can be installed outdoors or indoors. Vitreous china unit 12" x 13" with 8" high back. Elevated bubbler base with Purflo angle stream bubbler. Integral strainer. Automatic Modern-Kelly No. 14 push-button valve is freezeproof. Exposed supply line to bubbler also drains completely after each operation.



New "Classroom" drinking fountain-sink combination. For counter-top installation. Acid-resisting porcelain enamel on rigid cast iron. 24" x 18", it can be mounted in narrow counter-top. Big 15 1/4" by 15 1/4" basin. Single gooseneck spout with aerator and Magiclose control unit—including famous, easy-action Crane Dial-ese. Also available with hot and cold gooseneck supply fitting.



Waterfall Fountain 6-520. A new and attractive vitreous china fountain with 7" high back, elevated bubbler base and integral strainer. Designed for maximum sanitation and low cost maintenance. Has Purflo angle stream bubbler with vandal-proof base, automatic stream regulator and screw-driver stop. Valve is a Victor self-closing type with Magiclose control unit and access cover plate. Size: 9 1/2" x 13" x 17 1/4" high.



Exclusive Dial-ese replacement unit includes all working parts of the Crane faucet. Interchangeable and easily replaced. Crane faucets last longer and require less maintenance. Unlike ordinary faucets, they close with the water pressure to minimize dripping.

Efficient additions to your Home Ec Department



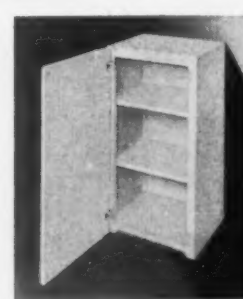
Sunnyday Sink 5-50-S. Single basin, acid-resisting porcelain enameled cast iron sink. Depressed drainboards, soap depressions, chromium plated Temple Dial-ese controls, retractable hose with thumb-action spray. Receptol basket-strainer waste. White baked enameled steel cabinets provide roomy storage space. Sizes 54" and 60" x 25 1/4".



Homemaker Sink 5-81-S. Compact, single basin, single drainboard, acid-resisting porcelain enameled cast iron sink. Chromium plated Embassy Dial-ese control. Receptol basket-strainer waste. Baked enameled steel cabinets. Size 42" x 25 1/4". For right hand drainboard, specify 5-82-S.



Sink 5-131-S. For continuous counter installation. Acid-resisting porcelain enameled cast iron. Two-compartment flat rim sink with extended back ledge. Chromium plated Embassy Dial-ese controls with thumb-control spray and retractable hose. Receptol basket-strainer waste. Size: 32" x 21".



Crane offers a complete line of base and wall cabinets in all popular sizes. Also special cabinets such as tray, Lazy Susan, mixer, broom, and oven cabinets. Your choice of 4 lovely colors and appliance white.

Crane products are readily available through Crane Branches, Crane Wholesalers, and local Plumbing Contractors
CRANE CO. 836 S. Michigan Ave., Chicago 5 • VALVES • FITTINGS • PIPE • PLUMBING • KITCHENS • HEATING • AIR CONDITIONING

AMERICAN SCHOOL AND UNIVERSITY—1958-59

GRINNELL



COMPANY

271 W. Exchange St.

Providence, R. I.



MODERN, AUTOMATIC FIRE PROTECTION FOR CENTURY-OLD BUILDINGS

"The difficulties of installing a sprinkler system in buildings which have old, but beautiful, rooms were met with complete success by Grinnell," reports John R. Everett, president of Hollins College.

"We have never had as excellent a group of workmen. Your engineers amazed all by fitting thousands of feet of pipe without damaging walls or soiling paint and paper. I can't imagine having the job done better."

These, then, are some of the practical considerations of having Grinnell install an automatic sprinkler system. But what of the intangible advantages? Things like peace of mind in knowing that students are protected

at all times . . . and that old, hallowed buildings are completely safe. Again, Grinnell Automatic Sprinklers provide the perfect answer.

For records show that fires which do start in schools (and there are an average of five a day) can be controlled wherever and whenever they start, day or night, with automatic certainty, by Grinnell Sprinklers.

There is a moral obligation upon architects and school superintendents for the utmost in protection of lives and property. For your own sake be sure the schools for which you are responsible have Grinnell Sprinkler protection. Grinnell Company, Inc., 271 W. Exchange St., Providence, R. I.



GRINNELL

AUTOMATIC SPRINKLERS SINCE 1878

AMERICAN SCHOOL AND UNIVERSITY—1958-59

C-3 Ce

CONDENSED CATALOG . . . NO. 59

Write for complete catalog



CENTURY

Since 1917

Sanitary

DRINKING FOUNTAINS

ELECTRIC
WATER COOLERS

CLASS ROOM SINKS



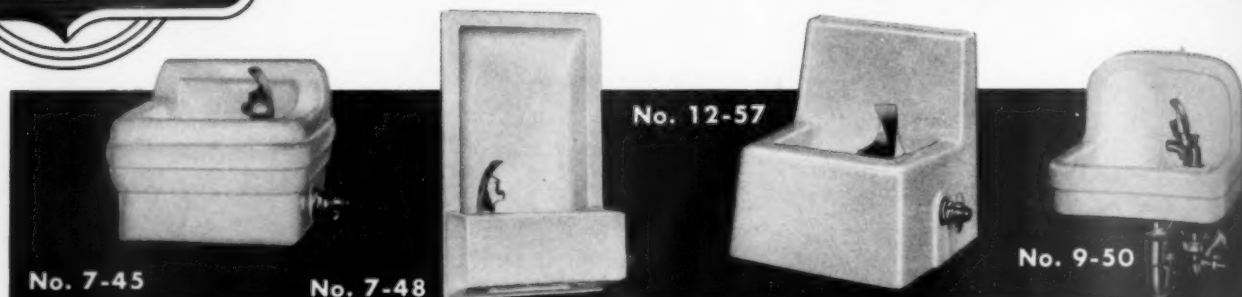
LOS ANGELES, CALIFORNIA

BELLEVEILLE, ILLINOIS



VITREOUS CHINA WALL FOUNTAINS

. . . with elevated bubbler base



DIMENSIONS	No. 7-45	No. 7-48	No. 12-57	No. 9-50
Receptor (Inside).....	9 x 9 3/4 in.	12 x 10 in.	10 1/2 x 9 in.	10 1/2 x 10 in.
Depth of Receptor.....	2 3/4 in.	3 in.	3 in.	2 1/2 in.
Width Over All.....	13 in.	15 1/4 in.	16 in.	12 in.
Height Over All.....	10 1/2 in.	26 1/8 in.	16 1/2 in.	8 3/4 in.
Wall to Drinking Stream.....	9 in.	4 1/2 in.	11 in.	10 1/2 in.
Wall to Front of Fountain.....	13 in.	7 in.	14 in.	12 1/2 in.
Shipping Weight.....	43 lb.	75 lb.	50 lb.	25 lbs.

MODEL NO. 7-45

No. 701 Brass, CP, angle stream automatic bubbler — self closing valve — 3/8 inch IPS Brass supply — loose key stop — Brass CP strainer — 1 1/4 inch Cast Brass "P" trap.

MODEL NO. 7-48

Semi-recessed — No. 701 Cast Brass, CP, angle stream automatic bubbler — self closing valve — 3/8 inch IPS Brass supply — loose Key stop — Brass CP strainer — 1 1/2 inch Cast Brass "P" trap with CP exposed wall cleanout.

MODEL NO. 12-57

No. 1200 forged brass, CP, angle stream automatic bubbler — self closing valve — 3/8 inch IPS brass supply — loose key stop — integral strainer — 1 1/4 inch Cast Brass "P" trap.

MODEL NO. 9-50

No. 900 cast brass, CP, angle stream, push button automatic bubbler — 3/8 inch IPS brass CP supply — loose key stop — brass CP strainer — 1 1/4 inch CP bent tube "P" trap.

PAC MODELS

Capacities of 15, 20 and 25 Gals. per Hour

Heavy duty, high capacity "combination" type coolers designed for Cafeteria, Restaurant, School and Industry. Large reserve storage of chilled water — 5 gallons — always available to handle "PEAK LOAD" demand.

TOP: Polished stainless steel with removable S. S. anti-splash louvered grill.

FITTINGS: Choice of four arrangements for bubbler or glass filler supply trim.

VALVE: Foot pedal operated.

CABINET: Heavy gauge steel; welded steel base; finished in grey-green Hammertone baked enamel.

CONDENSER: Air cooled (available with water cooled condenser — specify PWC in lieu of PAC).

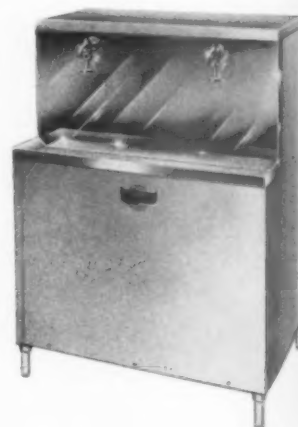
COMPRESSOR: Hermetically sealed refrigeration units, 110 V., 60 Cycle AC.

COOLING UNIT: 5 gallon storage tank constructed from heavy gauge steel, hot galvanized after fabrication. Tested for 125 lb. working pressure. Properly baffled and fully insulated and sealed. Can be furnished with COPPER ALLOY "Everdur" tank in lieu of galvanized tank at extra cost.

NOTE: Can be furnished in "Jr. Size" 30 inch height; specify as PAC-J. Write for complete details.



CAFETERIA TYPE COOLERS CA Models



Furnished in the following capacities:

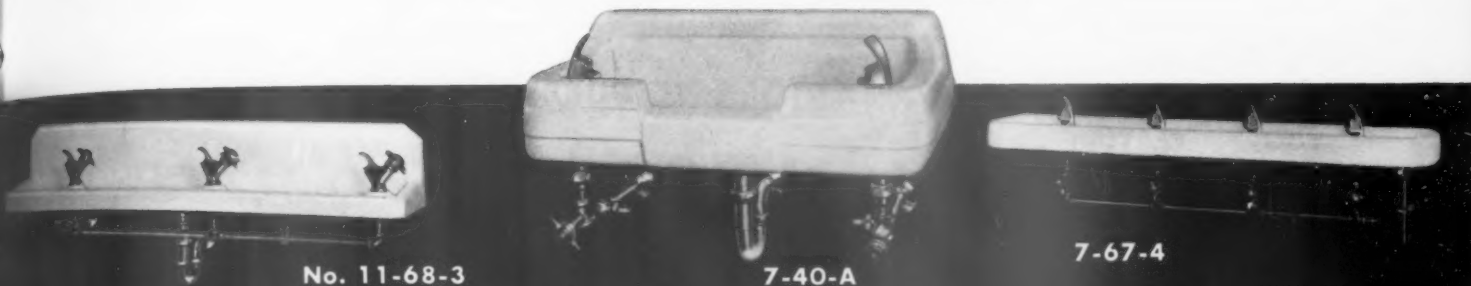
CA-20	5 gal. storage	1/3 H.P.	12.5 GPH
CA-25	13 gal. storage	1/2 H.P.	17.3 GPH
CA-30	20 gal. storage	3/4 H.P.	28.5 GPH
CA-50	25 gal. storage	1 1/2 H.P.	55.6 GPH
CA-75	40 gal. storage	2 H.P.	69.6 GPH

(Available with Water Cooled Condensers — Specify CW in lieu of CA.)

CENTURY BRASS

MULTIPLE BATTERY FOUNTAINS

. . . with elevated bubbler base



DIMENSIONS	11-68-3	No. 7-40-A	No. 7-67-4
Depth of Trough.....	2 in.	3 1/2 in.	2 1/2 in.
Wall to Drinking Stream.....	10 in.	9 in.	8 in.
Wall to Front of Fountain.....	12 3/4 in.	13 in.	11 in.
Height at Back (Over All).....	8 in.	7 1/2 in.	
Number of Bubblers.....	1 2 3	2	2 3 4
Width.....	18 3/4 in. 32 in. 46 in.	25 in.	30 in. 44 in. 55 in.
Shipping Weight.....	69 lb. 93 lb. 120 lb.	55 lb.	75 lb. 85 lb. 120 lb.

Model 11-68-3:

Porcelain enamel on cast iron—can be furnished with 1, 2 or 3 bubblers—illustrated with 3 No. 1100 cast brass CP, angle stream bubbler—valve fitting mounted within the trough—3/8 inch IPS brass CP supply—loose key stop—1 1/4 inch cast brass CP strainer—1 1/4 inch brass CP tube "P" trap—painted cast iron wall brackets.

Model 7-40A:

Vitreous china—with 2 No. 701 cast brass CP, angle stream automatic bubblers—self closing valves—3/8 inch IPS brass CP supply—loose key stop—1 1/4 inch cast brass CP strainer—1 1/4 inch brass CP tube "P" trap.

Model 7-67-4:

Porcelain enamel on cast iron—can be furnished with 2, 3 or 4 bubblers—illustrated with 4 No. 701 cast brass CP, angle stream automatic bubblers—self closing valves—3/8 inch IPS brass CP supply—brass CP strainer—1 1/4 inch brass CP tube "P" trap.

PA and XPA Models

Modernly designed pressure type coolers furnished with polished stainless steel top—forged brass CP automatic bubbler—both push button and foot pedal operated—all PA models furnished with full 2 gallon stainless steel storage tank—XPA models are instantaneous, tube on tube type design—cabinet size; 14 1/2" wide, 13 1/2" deep, 39 1/2" high—"Jr." size PAJ-7 is 30" high.



No. PA-13



Model LAC-3—"Executive"

Capacity 3GPH—stainless steel top—automatic bubbler—push button valve—stainless steel compartment with 2 ice trays provides space for storage of office lunches and bottled beverages—baked grey-green hammetone enameled finish—ideal for small "executive" type offices.



MODEL	G.P.H. CAPACITY	STORAGE CAPACITY	UNIT H.P.	EST. SHIPPING WEIGHT
XPA-10	10.3	3/4 Gal.	1/5	100
XPA-20	22	3/4 Gal.	1/3	140
PA-9	9.2	2 Gal.	1/5	112
PA-13	12.5	2 Gal.	1/4	130
PA-16	16	2 Gal.	1/4	135
PAJ-Jr. Size	7.2	2 Gal.	1/5	104

XPA models instantaneous type cooling units
PA models furnished with Stainless Steel Storage Tank.

LARCO MODEL LB-3 BOTTLE TYPE COOLER

Wherever bottled water is used . . . requires only an electrical outlet. Silent static type condenser and hermetically sealed refrigerating mechanism, capacity: 3 gallons per hour. Completely portable—no plumbing connections. Baked enamel Hammettone finish of frosty grey-green. Generous sized waste container is easily removable for emptying. (Bottle not furnished.)

DRINKING FOUNTAINS BY . . .



Century AUTOMATIC BUBBLERS

FEATURE . . .



No. 701

1. **Automatic Volume Regulator:** built into bubbler head itself. Self-adjusting to variations in water pressure. Eliminates necessity of a separate flow regulator. **Positive** stream regulation between water pressures of 15 and 125 PSI. Delivers constant desirable drinking stream at all times. Complies with volume requirements of Federal Specification 00C-566C.
2. **Sanitary Design:** approved angle stream with integral mouth guard meets plumbing codes and sanitary regulations.
3. **Safety Factor:** positive anti-squirt design plus automatically controlled drinking stream confines drinking stream to limits of receptor—thereby eliminating contaminated and slippery floors.
4. **Economy:** minimum water consumption due to automatically regulated drinking stream—servicing and repairs minimized by rugged, yet simple design—only **five** working parts comprise entire automatic mechanism—can be serviced without removing bubbler or shutting off line pressure.

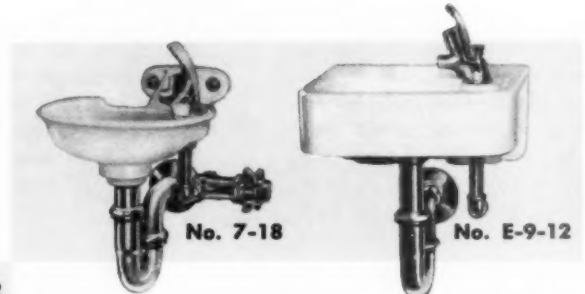


No. 900

WALL BRACKET FOUNTAINS With elevated bubbler base

No. 7-18 Cast iron porcelain enameled bowl with integral cast bracket arm—No. 701 Automatic bubbler—self closing valve— $\frac{3}{8}$ inch IPS Brass CP Supply— $1\frac{1}{4}$ inch CP Brass "P" Trap.

Can be furnished with No. 900 Push button Automatic Bubbler—(specify No. 9-18).



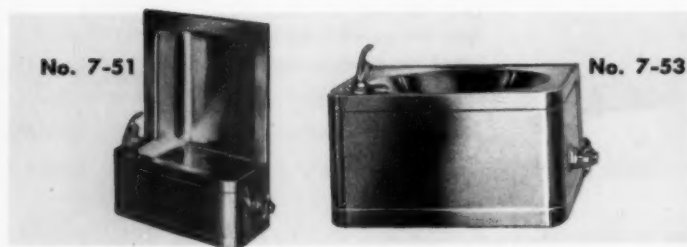
No. 7-18

No. E-9-12

DIMENSIONS	No. 7-18	No. E-9-12
	(Oval)	
Receptor	10 x 6 $\frac{3}{4}$ in.	9 x 5 in.
Depth of Receptor	3 $\frac{1}{4}$ in.	2 $\frac{1}{4}$ in.
Wall to Drinking Stream	8 in.	8 in.
Wall to Front of Fountain	12 in.	11 $\frac{1}{2}$ in.
Shipping Weight	19 lb.	18 lb.

No. E-9-12 Heavy vitreous china bowl—No. 900 Push Button Automatic Bubbler— $\frac{3}{8}$ inch IPS Brass CP Supply— $1\frac{1}{4}$ inch CP Brass "P" Trap.

STAINLESS STEEL FOUNTAINS



A complete line of modern designed stainless steel models—furnished complete with automatic bubblers, self closing valves, etc.—write for complete details.

CLASS ROOM SINKS



No. 3000

No. 2919

A complete line of acid resisting cast iron porcelain enameled and stainless steel classroom sinks—write for complete details.

CENTURY BRASS WORKS, Inc.

BELLEVILLE, ILLINOIS

West Coast Division • Larco, Inc. • 2409 San Fernando Rd. • Los Angeles, Calif.



CORDLEY & HAYES

443 Fourth Ave., New York 16, N. Y.

First in water cooling since 1889 over 1,000,000 sold

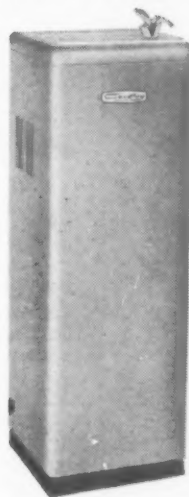
The Complete Water Cooler Line . . . with a quality-built model for every drinking water need



for kindergarten and primary
grades

Low Height Model J-8

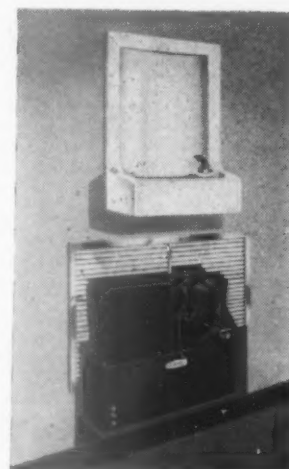
A compact full-capacity water cooler, just 31 1/4" high. Contains the same cooling system found in standard Cordley coolers. Bubbler is squirt-proof, push-button operated.



for general use

Cordley Bubbler Models . . . Standard Line and Compact Line

Widely used in schools and colleges, Cordley Bubbler-type Coolers are available in capacities from 3 to 27 gallons per hour. Where desired, goose-neck glass fillers may be quickly and easily attached. Front panels of coolers are quickly removable to allow access to all parts for maintenance and adjustment. NOTE: Where plumbing facilities are unavailable, Cordley Bottle-type Water Coolers are recommended.



Cordley "WALL-HIDE" in-the-wall remote cooler

New to the famous Cordley line, the "Wall-Hide" Cooler is just 6 3/4" deep. Specially designed for modern architecture, it fits in hollow walls—capacity rated at 5 gallons per hour. Other remote coolers offered have capacities of 6 to 24 gallons per hour, can serve several remote fountains at economical installation and operating costs.

for offices and faculty rooms

Cordley Hot and Cold Water Dispenser

with household refrigerator compartment

Get the double convenience of piping hot water for instant coffee, tea and other stimulating drinks—plus plenty of refreshingly cool drinking water. Between classes teachers can enjoy the hot drink

they prefer. Roomy refrigerator compartment stores milk, cream, cold drinks. Contains one cubic foot of storage space plus two ice trays.

Before You Buy Any Water Cooler

CHECK THESE CORDLEY ADVANTAGES

- Failure-proof mechanical controls
- Bubbler jets aimed for easy drinking—splash and squirt-proof
- 7-point thermostat—maintains water at temperature you want
- Extra service connections—for glass fillers and remote fountains
- Contamination proof—refrigerant coils bonded externally

5 Year Guaranty

All Cordley Coolers are backed by the most generous guaranty in the industry. Details are given in the Cordley Catalog 58.

Write for Catalog 58 for full details on the
Cordley quality line of dependable Water Coolers

Cordley Electric Water Coolers
are available nationally through plumbing, industrial and other leading supply houses. Consult your classified directory or write Cordley & Hayes.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

SYMMONS ENGINEERING COMPANY

445 C St., Boston 27, Mass.



Symmons

SAFETYMIX

PROTECTS AGAINST SHOWER SCALDS

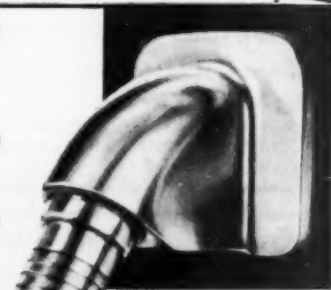
SAFETYMIX — The pressure-actuated non-scald shower valve is now standard equipment in schools and colleges everywhere. This is because sudden "scalds" in showers are caused only by fluctuations of pressure. **SAFETYMIX** gives positive control over these pressure changes. It is the only non-scald shower valve guaranteed to maintain discharge temperature within 2° F against pressure fluctuations up to 85% in either hot or cold supplies. Costs no more than ordinary valves, is simple to install and is as easy to fix as a faucet.

SOME SAFETYMIX USERS

Michigan State College, M. I. T., Dartmouth, U. of Cincinnati, Johns Hopkins, State Teachers, Wellesley, U. of Chicago, U. of Maine, Brown U., Conn. College, Holy Cross, Leland Stanford, Marquette U., Austing Public Schools, U. of Washington, DePau, Western Reserve, U. of Pittsburgh, Wm. & Mary, Loyola, etc., etc.

Symmons NEW ALL-PURPOSE **FRE-FLO** SHOWER HEAD

Simple, inexpensive, non-clogging unit with adjustable spray and volume control. Specially designed for water of high mineral content. Rigid, theft-proof, polished chrome finish. Famous Symmons quality.

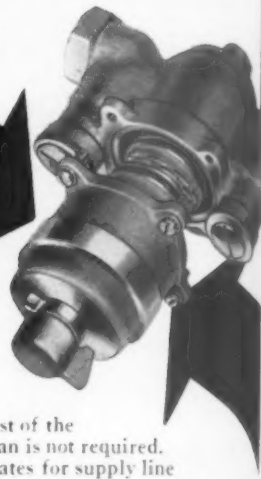


Symmons NEW FAIL **TEMP**TROL SAFE

THERMOSTATIC
WATER MIXING VALVE
WITH A

**REPLACEABLE
CARTRIDGE**

TEMPTROL accurately maintains constant hot water temperature at outlet regardless of heater temperature variations. Settings range from 90° F to 180° F. The *Replaceable* cartridge (containing all working parts) can be changed by anyone who can handle a screwdriver, without removing the rest of the valve from the line. An expert repairman is not required. It instantly and automatically compensates for supply line temperature or pressure changes... safely shuts down on hot or cold failure. Easily installed at heater as a Master Control or anywhere along the line as a Zone Control. Corrosion free, stainless construction. Solid fill thermal element mounted out of water in protected chamber. Available in 3/4", 1", 1 1/4" and 1 1/2" sizes. Symmons quality throughout.



Symmons **SHOWEROFF**

**AUTOMATIC
SHOWER
LIMITER**

... SAVES
WATER



#4-320
Built-in Model

All parts accessible from front available in either exposed or concealed models with accessories as desired.

SHOWEROFF GIVES YOU:

1. Water Savings
2. Lower H.W. Heating Costs
3. Smaller Supply Tanks
4. Positive Action
5. Easy Installation
6. Dependable Service
7. Symmons Quality

FOR FURTHER INFORMATION WRITE FACTORY DIRECT OR CONTACT NEAREST WHOLESALE PLUMBING DISTRIBUTOR

THE HALSEY W. TAYLOR CO.

Manufacturers of Drinking Fountains and Coolers
Warren, Ohio

AGENTS IN PRINCIPAL CITIES

PRODUCTS

Drinking fountains, pedestal, recessed and wall types. Water coolers, electric, and ice and bottle types.

DISTINCTIVE FEATURES THAT APPEAL TO ARCHITECT AND SCHOOL AUTHORITIES

Over the years Halsey Taylor Drinking Fountains have attained an enviable reputation for positive sanitation and conveniences in thousands of installations the world over. During the first world war and again in the second, these fountains won the approval of the Government and Military authorities as the ideal sanitary fountains, continually improved and refined. Halsey Taylor Drinking Fountains are today the most modern and dependable in use, for schools, hospitals, hotels, municipal and public buildings, churches and commercial and industrial operation.



It will pay you to investigate Halsey Taylor modern, sanitary drinking fountains which give you definite assurance of dependable, trouble-free service, proper health safety, maximum conveniences, built-in patented features exclusive with Halsey Taylor. Be sure, be safe, buy Halsey Taylor for health safety!

School authorities can be sure of health safety and long, dependable trouble-free service when they specify the correct Halsey Taylor fountain for their buildings. When requested, installations can be made vandal-proof.

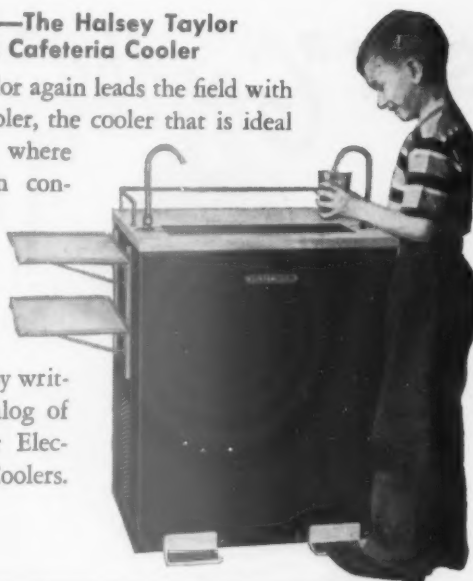
- 1—Practical Automatic Stream Control—Automatic device maintains constant height in drinking stream regardless of line pressure variation. Stream never too high, never too low.
- 2—Ideal Drinking Mound—The two-stream projector with latest type guard makes the side stream both practical and health-safe, removing objections found with ordinary side-streams.
- 3—Definite Sanitation—Drinking mound formed by converging of two streams of water, setting up a localized drinking mound which makes it impractical to drink from any other point. Fingers or lips cannot come in contact with or contaminate water source.

Fountains for every requirement: This page shows you but a few of the various types of the Halsey Taylor drinking fountains. There is a model for your every need, all of them modern in styling and all incorporate the exclusive Taylor features. Write today for a complete catalog.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

It's Practical—The Halsey Taylor LO-LEVEL Cafeteria Cooler

Halsey Taylor again leads the field with a Lo-Level cooler, the cooler that is ideal for all places where small children congregate. This is but one of the many distinctive models that you will find by writing for a catalog of Halsey Taylor Electric Water Coolers.



Many attractive Pedestal and Wall types



No. 4615

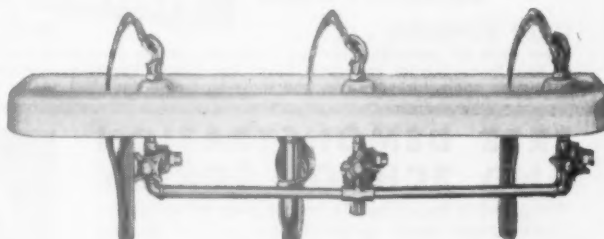


No. 5616



No. 4901

Battery Types
Many two- and three-part battery types especially adapted to school installations



No. 4703

AMERICAN DRYER CORP.

1324 Locust St.
Philadelphia 7, Pa.

SAY "Goodbye" TO WASHROOM WASTE



by
installing

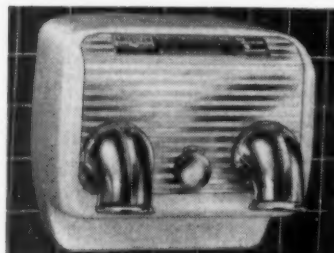
School washrooms everywhere are now reflecting the wisdom of progress-minded administrators who recognize the sturdy, trouble-free efficiency of superior American electric hand Dryers. Our dealers, in your area, can demonstrate these benefits to you, too.

THE
ELECTRIC
HAND
DRYER
THAT
**DEFIES
DESTRUCTION!**



APPROVED BY SCHOOL BOARDS & ADMINISTRATORS

Here is Today's Big Answer to vandalism and tampering. One-piece, stamped steel covers . . . "Inner Set" wedge-proof starter button and revolving nozzles . . . lifetime "permatized" porcelain finish in smart decorator colors . . . patented design inner mechanism — these and other American Dryer features add up **AMAZING ECONOMY, DEPENDABLE PERFORMANCE and WELCOME WASHROOM CLEANLINESS.** Actually reduce drying costs by 95%. Full 36-month factory warranty!



DUAL NOZZLE UNITS . . .
Models DE-10 (110-120 volts),
and DE-20 (220 volts)

SINGLE NOZZLE UNITS . . .
Models SE-10 (110-120 volts),
and SE-20 (220 volts)



American HAIR Dryers

SPEED SCHEDULES . . .

Timer shuts off automatically after 3 minutes, drying even a woman's full head of hair thoroughly in fast time. Saves the cost of expensive Turkish towels in swimming pools, locker rooms, and showers. Single and dual nozzle units.

SAVE MONEY



FREE DEMONSTRATION AND SCHOOL SURVEY

Write today for complete catalogued information, specification sheet, name of your nearest dealer, and free engineering survey.

American ELECTRIC HAND **Dryers**

THE CHICAGO HARDWARE FOUNDRY COMPANY

"Dependable Since 1897"

6158 Commonwealth Ave., North Chicago, Illinois

SCHOOLS Everywhere SAVE MAINTENANCE and TOWEL COSTS BY CHANGING TO



Sani-Dri AUTOMATIC **HAND and HAIR DRYERS**



No Mess • No Clutter • No Clogged Plumbing • No Fire-Hazard Waste • More Sanitary
• Saves Space • 24 Hour Automatic Service • Saves Up to \$300.00 per year in typical school of 500 students!

ONLY SANI-DRI OFFERS A COMPLETE LINE WITH ALL THESE FEATURES!

- Smart modern decorator styling
- Faster drying with improved heating element—increased air flow
- Quieter, smoother operation with dynamically balanced motor and blower
- Instant starting—automatic shut-off
- Circuit breaker prevents damage
- 33% less current consumption

FULL 2-YEAR GUARANTEE



Only SANI-DRI Offers this Complete Line with One Standard Machine!

No. 12-5—HAND OR HAIR DRYER—Gives old washrooms a smart new look . . . or blends perfectly with the most modern washroom fixtures. Push bar switch with automatic shut-off. 115V-13 amp. White porcelain enamel finish. Size 10-5/16" wide by 8-3/4" high. Extends 8-3/4" from wall.

HAIR DRYER—A simple adjustment converts the No. 12-5 hand dryer to a hair dryer for swimming pools, locker rooms, shower rooms, club houses, etc.

No. 12-6—SEMI-RECESSED HAND OR HAIR DRYER—Especially suited to new construction. Allows all wiring to be concealed. Takes less space. Push bar switch with automatic shut-off. White porcelain enamel finish. 115V-13 amp. Size: (outside) 15-1/4" wide by 11" high. Extends 6-1/8" from wall. (Inside) Extends 3-9/16" into wall; wall opening 14-1/2" x 10-1/8".

HAIR DRYER—No. 12-6 Hand Dryer can be converted to a hair dryer by a simple adjustment and higher mounting. Approved by authorities as a means of preventing colds after showers, swimming, etc.

No. 12-7—PEDESTAL ONLY—(To accommodate two No. 12-5 Hand Dryers) Used in central area of washrooms where wall mounting is not practical. Pedestal base, cast iron, porcelain enamel with steel column in Sanite finish in color to match nozzle and push bar. Height of pedestal and two machines: 49-1/8"; width, 2 machines: 17-1/2"; height of each machine: 8-3/4".

All machines are also available in 230 volt models.

WRITE TODAY for brochure showing installations and cost comparison sheet

AMERICAN SCHOOL AND UNIVERSITY—1958-59

EXIDE INDUSTRIAL DIVISION

The Electric Storage Battery Company

42 S. 15th St., Philadelphia 2, Pa.

Give positive protection to pupils and property with

Exide® EMERGENCY LIGHTING SYSTEMS

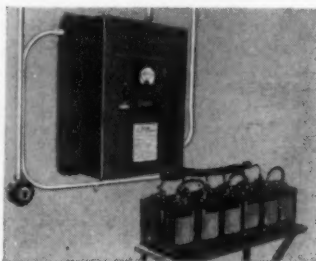
THE CRITICAL NEED for dependable emergency lighting in many school areas must be recognized by those in authority and provided for *before* disaster strikes. When normal power goes off, sudden darkness can result in serious injuries caused by panic, loss of communications, damage to property. Exide emergency lighting protection guarantees instant, adequate lighting. Study the Exide answers to the problem given below—write to Exide for complete product information and specifications—call the Exide sales office listed.

THESE SPOTS require Exide emergency lighting protection:
Cafeterias • Auditoriums • Swimming Pools • Corridors • Exits • Locker Rooms • Aisles • Firetowers • Libraries • Lobbies • Stairways • Dispensaries • Boiler and Engine Rooms • Switchboard Rooms

THE EXIDE ANSWER:

Permanent Exide Emergency Lighting Systems

Modern schools now entirely eliminate the hazard of unexpected lighting failure by installing this Exide system, which automatically provides instant light from lamps on its own, permanently installed circuits. Long-life Exide batteries provide current for 32-volt, and 115-volt installations. Batteries are always fully charged, ready for instant use. Change-over from normal power to Exide emergency power is instant, automatic, completely reliable. The entire system is easy to install, makes use of regular wiring and electrical equipment. No special battery room is necessary. The Exide installation is compact, trouble-free, low in cost. Write for Form 4721.



Exide 32-volt system used when the load is less than 1200 watts, is compact and adaptable to small spaces.



This 115-volt Exide System, for lighting loads up to 38,000 watts, is typical of thousands assuring automatic, split-second lighting protection. Exide will help your architect or contractor include emergency lighting in your new or present building.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

ANOTHER EXIDE ANSWER:

Exide Lightguard® Emergency Lighting Units

When lights go out, Exide Lightguards go on, instantly, automatically! These portable units can be used to supplement and extend the value of a built-in emergency lighting system. Mounted on wall brackets, they tie into any 115-volt outlet, eliminating extensive re-wiring. Older buildings can be modernized with these compact, new units. New buildings can also use Lightguards where running wires from a central system would be unnecessarily expensive.



The new Exide Lightguard Model A.

The new Exide Lightguard Model A is recharged automatically—no attention is required to keep it operative. This special Exide battery has been developed for the utmost in dependable operation and long life, with minimum maintenance. All units are UL-approved. Single and double lamp Lightguards are available; each lamp illuminates up to 10,000 sq. ft. Write for Forms 5926 and 5736.

FOR LABORATORIES, FIRE ALARMS, PROGRAM CLOCKS, AUTO-CALL, INTERIOR TELEPHONES, Exide batteries assure absolute dependability of vital electrical equipment, provide sustained high voltage, with low maintenance. Sealed glass or plastic type Exide batteries provide for experiments a constant voltage free from disturbance or interference by any outside influence.

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(Consult your telephone directory for additional Exide representatives)

Light for Learning by



CURTIS

visioneers in planned lighting



Visual Perception in Learning

Vision, the most essential element of learning in the classroom, accounts for 85% of the total perception of students. It has been estimated that the books that a child uses from kindergarten through high school would fill a shelf seventeen feet long a good indication of the great amount of close, visual work required in modern education. Close visual work, and the variety of seeing tasks, present a difficult problem in the professional design of the classroom as an efficient instrument of learning. After many years of research, school planners have discovered that the solution to this problem lies in the creation of a generally "luminous environment" in the classroom.



The Luminous Environment

Essential elements to this environment are light colored ceilings, walls, floors and desk tops and a high level of evenly distributed illumination. Such high levels of illumination (between 50 and 100 footcandles) require scientific control to protect the eyes from direct and reflected glare while performing the seeing task. Maximum visual comfort, the reduction of eyestrain and resultant fatigue and increased student perception are the end result of a totally planned environment including a carefully engineered lighting system.



Planned Lighting Systems

To assist you in the achievement of a planned lighting system, professional guidance is available through your Curtis representative. On the following pages are representative installations depicting Curtis-engineered solutions to typical classroom lighting problems. These solutions were arrived at by Curtis representatives utilizing their illumination engineering skill in the application of Curtis quality lighting products . . .



Forty-Sixty Series

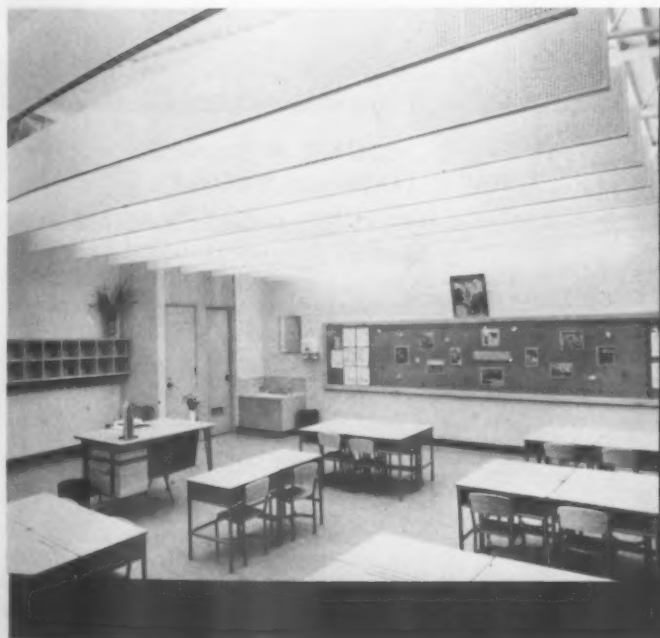
A varied family of luminaires especially designed for school lighting, which direct 60% of the light upward. The high upward component provides maximum visual comfort by reducing lighted fixture/dark ceiling contrast. For control of direct glare, a wide variety of louvered, non-louvered, and low-brightness luminaires are available in either white Fluracite enamel or Alzak* aluminum finish. The design of the luminaires, featuring hinged louver, affords low cost maintenance through quick re-lamping and ease of cleaning.

*Alzak—a proprietary term of Aluminum Company of America



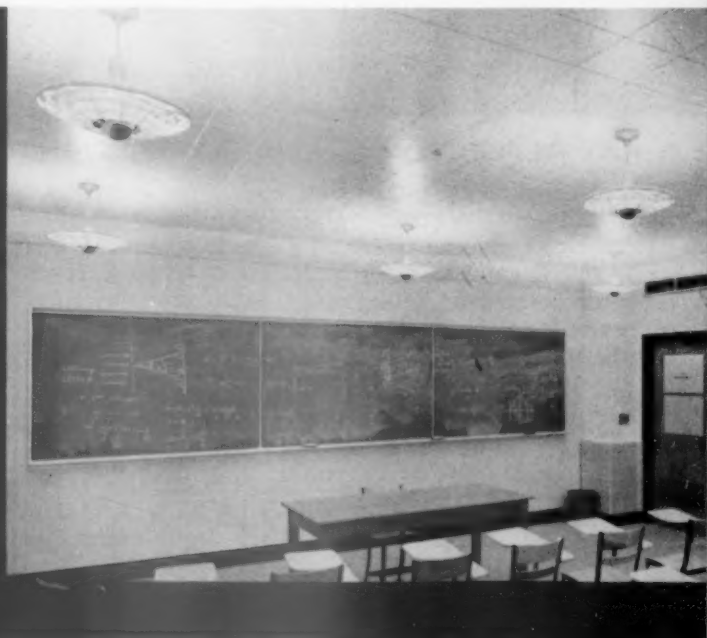
Troffers

Recessed luminaires provide highest quality illumination ideally solving the problem of classroom lighting which arises from contemporary, low ceiling construction. Extremely functional, troffers combine long-lived appearance with durability, and allow quick and simple cleaning and re-lamping, for low maintenance cost. Maximum visual comfort may be attained by selecting from a varied combination of louvers and lenses, finishes, and number and type of lamps, creating a luminaire especially suited to your particular requirements.



Light and Sound Conditioning System

A unique system combining high-quality illumination with controlled acoustics. Especially constructed acoustical baffles combine a high noise reduction coefficient with excellent shielding of the fluorescent lamps. Baffles are easy to maintain, being washable, and are flame retardant for extra safety. Curtis Light and Sound presents a practical solution to the combined problems of classroom lighting and acoustics.



Sno-Flake

A totally indirect incandescent luminaire of unique design and rugged, die-cast construction for long service. One hundred per cent of the light is directed upwards from a concealed source and redirected from the ceiling as glare-free, evenly diffused illumination. Sno-Flake luminaires permit the attainment of a uniform level of illumination without annoying shadows or reflected glare.



LIBRARIES

SKY-LUX LUMINAIRES

Long term, close visual tasks performed in libraries demand special consideration of illumination treatment. Recessed or Surface mounted Sky-Lux luminaires provide a fine degree of controlled illumination.



CORRIDORS

LOUVERED CORRIDOR LUMINAIRE

An attractive unit specifically designed to provide maximum side wall illumination for easier seeing and safer traffic areas, and to eliminate the "gloom" from corridors.



LOBBIES

SQUARE RECESSED INCANDESCENT

A small but powerful luminaire equipped with a choice of lenses for wide or concentrated light distribution, as required for corridor or lobby lighting.



GYMNASIUMS

X-RAY REFLECTOR

A controlled, high light-level luminaire that provides quality, glare-free light for players and spectators. The variety and combinations of X-Ray reflector designs fulfill the visual requirements encountered most in high ceiling applications.



EXITS

EXIT LIGHTS

A complete line available with all basic glass types and colors to meet local codes. Surface type units have glass bottoms to provide minimal downlighting.



AUDITORIUMS

ROUND RECESSED INCANDESCENT

Providing light for audience seating and an adequate amount by which to read programs, the Round Recessed Incandescent luminaires merge well with every decor. These Curtis luminaires may be supplemented by fluorescent effect-lighting.



Professional Guidance In Illumination

Your Architect or Consulting Engineer will be glad to assist you in the proper application and selection of Curtis luminaires to fulfill your school lighting requirements.

Your Curtis representative, a specialist in illuminating engineering, is at your service to personally survey

your problem areas, and contribute professional guidance in a luminaire application school planning program. For detailed luminaire construction and performance data on the entire line of Curtis luminaires, write for a current copy of our catalog, and the name of the Curtis representative in your area.



CURTIS LIGHTING INCORPORATED

6135 W. 65th St. • Chicago 38, Illinois
IN CANADA
CURTIS LIGHTING OF CANADA LTD.
195 Wicksteed Ave. • Toronto 17, Ontario
visioneers in planned lighting

PRINTED IN U.S.A.

C-5/Su



GET MAXIMUM
VISUAL COMFORT
ASK FOR
SUNBEAM LIGHTING



SUNBEAM LIGHTING COMPANY

777 East 14th Place, Los Angeles 21, California 3840 Georgia Street, Gary, Indiana

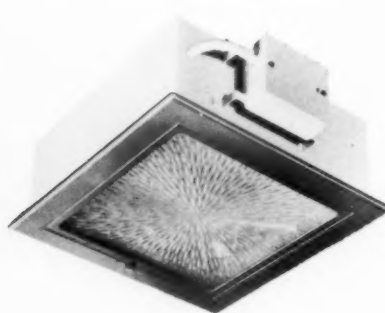


SHALLORAMA® — QP8500 SERIES

A revolutionary new, extremely shallow surface-mounted Visionaire that becomes an organic part of any architectural theme. This recessed appearing, self-luminous structural element is fully enclosed by contoured matte white Plexiglas for comfortable and efficient "area illumination."

Dual Alzak reflectors are scientifically oriented to lamps and diffuser for surety of unusually even brightness.

No visible hardware to mar the SHALLORAMA's® appearance of clean, sculptured wholeness. For easy maintenance diffusers open from either side with one hand on continuous hinge support. Leveling jacks at each corner allows fixture to adapt to most ceiling irregularities.



50301 recessed incandescent



60301-D recessed incandescent

These luminaires are typical of a very extensive line of recessed, incandescent units specially designed to produce warm, friendly tones of lighting in auditoriums, cafeterias, lobbies and corridors. These Sunbeam fixtures utilize scientifically designed prismatic reflectors and lenses which give precise control of the light distribution to meet specific illumination requirements. Light is taken out of the glare zone and projected within the more useful work zone. In lay terms this means that you get more efficient and more comfortable lighting.



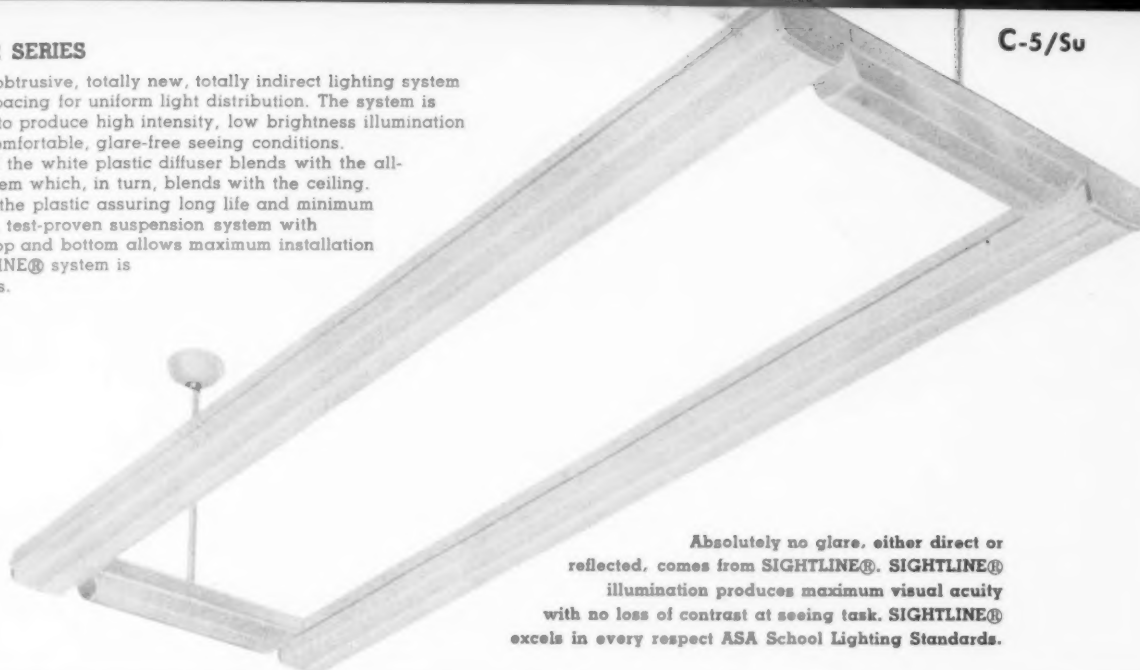
L1620 SERIES

Expressly developed to exceed most school lighting standards, these all-metal fixtures have been specially contoured for critical brightness control and minimum glare illumination. Easy maintenance is assured by spring latches which permit channel cover and louver to be lowered as a single unit and to remain suspended on jack chains. Lamps can be changed from one position. Fixtures are designed for sliding clamp hangers and other means of mounting. No extra parts are needed for continuous row installation. All metal parts are Bonderite treated against corrosion and finished in durable all white baked enamel.

SIGHTLINE®—P132 SERIES

SIGHTLINE® is an unobtrusive, totally new, totally indirect lighting system featuring wide lamp spacing for uniform light distribution. The system is especially engineered to produce high intensity, low brightness illumination resulting in the most comfortable, glare-free seeing conditions. The soft appearance of the white plastic diffuser blends with the all-white finish of the system which, in turn, blends with the ceiling. No direct light falls on the plastic assuring long life and minimum maintenance. A strong, test-proven suspension system with patented 45° swivels top and bottom allows maximum installation flexibility. The SIGHTLINE® system is easily ordered by rows.

C-5/Su

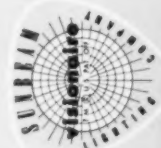
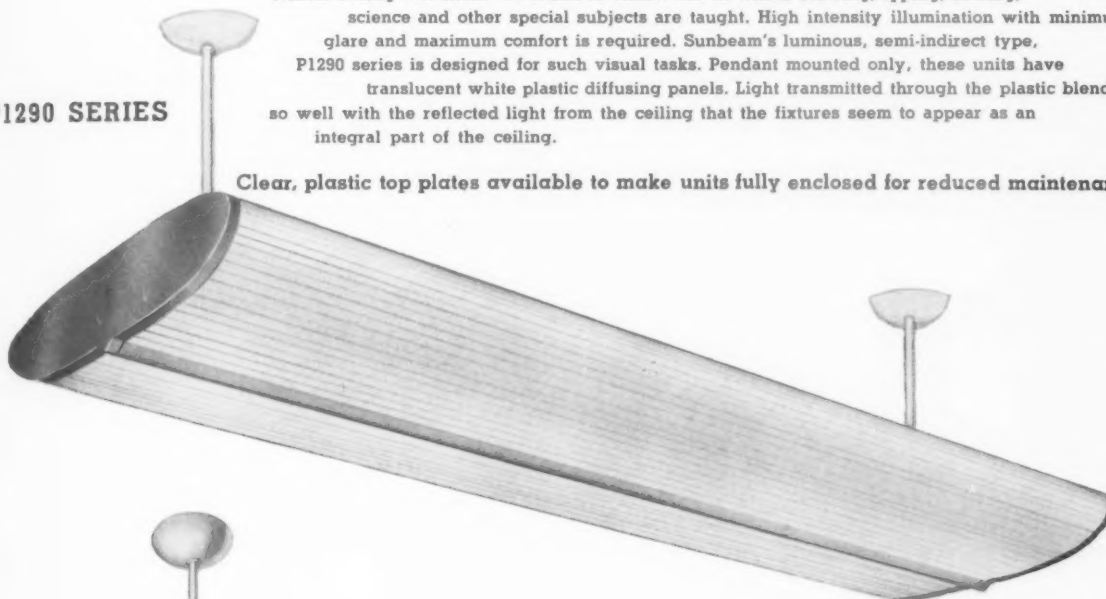


Absolutely no glare, either direct or reflected, comes from SIGHTLINE®. SIGHTLINE® illumination produces maximum visual acuity with no loss of contrast at seeing task. SIGHTLINE® excels in every respect ASA School Lighting Standards.

P1290 SERIES

Critical seeing conditions are found in classrooms in which drawing, typing, sewing, science and other special subjects are taught. High intensity illumination with minimum glare and maximum comfort is required. Sunbeam's luminous, semi-indirect type, P1290 series is designed for such visual tasks. Pendant mounted only, these units have translucent white plastic diffusing panels. Light transmitted through the plastic blends so well with the reflected light from the ceiling that the fixtures seem to appear as an integral part of the ceiling.

Clear, plastic top plates available to make units fully enclosed for reduced maintenance.



SUNBEAM LIGHTING COMPANY
777 East 14th Place, Los Angeles 21, California
SUNBEAM LIGHTING CO., INC.
3840 Georgia Street, Gary, Indiana

All Sunbeam Visionaires® Bonderized for long lasting finish.

1100 SERIES

This scientifically designed, all-metal, all-white pendant mounted 1100 series Visionaire® offers the advantages of totally indirect, low brightness illumination with the high efficiency (86%) previously associated only with direct, unshielded luminaires. With these benefits, the 1100 series finds ideal application in schools, drafting rooms and offices or wherever a demanding visual task is presented. Recommended especially for installations where only all-metal fixtures are required. Upward air currents through lateral louvers help keep fixtures clean and maintain high illumination efficiency.





QSDP4800 "LARGE AREA" CELLS

This surface-mounted, 4-ft. square, "large-area" unit features a smooth, translucent, white matté Plexiglas diffuser. The "dropped" sides of the diffuser panel illuminate adjacent ceiling areas to reduce contrast, and its inwardly-arched center adds strength and stability. This acrylic panel is noted for its long life and freedom from discoloration. The fully-framed diffuser is quickly released from either side. Similar fixtures are also available as recessed (HSDP3800), and two-foot by two-foot and two-foot by four-foot recessed (HSDP3600) or surface-mounted (QSDP4600).



This single-lamp Visionaire is specifically designed to provide efficient illumination in narrow areas such as corridors, between library stacks and storage files. Most of the light is projected outward to walls or other vertical planes where quick identification and readability is important. Direct glare is greatly reduced from underneath the fixtures by a longitudinal channel which also supports the louver assembly.

L331 SERIES



Because of the increase in tempo of work and study in today's classrooms, there is a need for higher levels of glare-free illumination. Sunbeam fixtures are intended to fill that need.

The design of Sunbeam lighting for schools is based on, and generally exceeds, the recommended practices of the American Standards Association and the

Illuminating Engineering Society's studies. Electrical safety is positively assured by the Underwriters' Laboratory label which all Sunbeam luminaires carry. Efficient light distribution, low, comfortable brightness, minimum maintenance, and easy installation are a few of the important features you get in Sunbeam Visionaires®. Ask for Sunbeam lighting to be installed in your new or remodeled classrooms.

SUNBEAM LIGHTING COMPANY

777 East 14th Place, Los Angeles 21, California

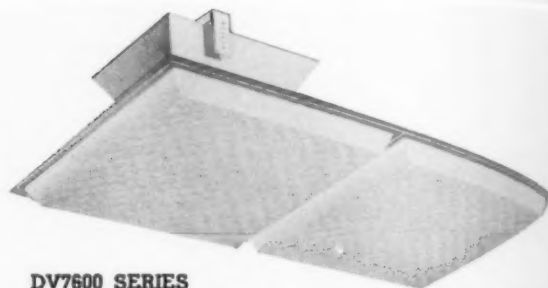
SUNBEAM LIGHTING CO., INC.

3840 Georgia Street, Gary, Indiana



L1280 SERIES

Performance tested and proved, the L1280 series offers contemporary styling, efficient light distribution and unique features for easy installation and minimum maintenance. White plastic side panels; one-piece louver assembly available for 32° or 45° longitudinal shielding. All-metal L1280 substitutes illuminated metal side panels with similar illumination results.



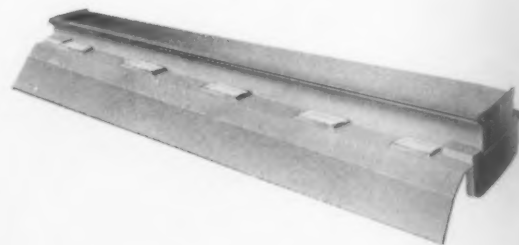
DV7600 SERIES

The DV7600 Visionaire is a sturdy, two-foot by four-foot, recessed light cell. This fixture employs a "dropped" vinyl diffuser which is available in a variety of modern-styled patterns. These diffusers are metal-reinforced, and are removable without the use of tools for ease of maintenance. The fixture has ample knockout and wireway provisions for continuous lengthwise and side-by-side runs.



2800 SERIES

A handsome unit for corridor, library stack and stairway illumination, the P2800 series provides more light on vertical surfaces, yet is shallow and compact in design. Diffusers of molded translucent plastic are shaped to present a uniform brightness in all directions, and may be snapped in or out for quick maintenance. Uplight subdues fixture-ceiling contrast.



X360 INDUSTRIAL

The X360 is a rugged, high-quality industrial fixture for either two or three lamps. It utilizes a slotted reflector that distributes 11% of the light in the upward component. This provides less overhead contrast and a more uniform general illumination. Steel-clad socket assemblies protect the lamps. The ballast channel of this rigid, sturdy fixture has built-in continuous grooves for sliding-clamp hanging. Ample knock-outs are provided for various methods of mounting. Fixture is finished in durable, all-white baked enamel.

THE EDWIN F. GUTH COMPANY

2615 Washington Ave., St. Louis 3, Missouri

FOR CLASSROOM, STAIRWAY, GYM OR HALL GUTH LIGHTING FIXTURES ARE BEST OF ALL

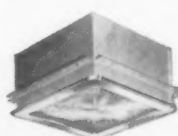
Guth has devoted more than a half a century to developing better light for better sight. Protect the young eyes that are entrusted to you most of every day . . . equip your school buildings with these good Guth lighting fixtures.



SLIMLUX
4 1/4" thin luminaire to flatter today's low ceilings. Luminous or solid sides. GrateLite Louver Diffuser, metal cross baffles, or low brightness lens.



SEELUX
Distinctive, three-ring open bottom for silver bowl lamps. Efficient, totally-indirect lighting for schools, stores, offices. Variety of styles.



SQUARE RECESSED UNITS
Available in a wide variety of Holophane and Corning lenses with **ALZAK** and prismatic glass reflectors.

LOOVOLITES
Low-cost recess units with glass louver-lens, open bottoms, or metal louvers. Heat-proof, breakproof **ALZAK** aluminum reflectors. Many other round recess units.



LITE BLOX RECESSED TROFFERS

1' and 2' widths. 8 models fit more than 83 suspension systems. For 1, 2, 3 or 4 lamps. Modular design for unlimited patterns.

V CORRIDOR UNIT

With GrateLite Louver Diffuser or Prismoid-Grate Lite Wall-to-wall illumination for wide hallways



FLUORESCENT AND INCANDESCENT INDUSTRIAL UNITS



HIGH BAY
Incandescent



WYTE-LINER
Fluorescent



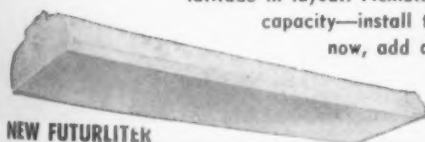
DOME
Incandescent

Balanced lighting—40% up and 60% down. Louvers hinge at side for easy relamping and cleaning. Shown with white cross-baffles. **GUTHLITE**® similar to E-Lite except Jackknife hinged for super maintenance—easy relamping or cleaning from floor.



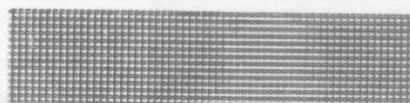
E-LITE

New louvers and diffusing improvements, plus greater latitude in layout. Flexible foot-candle capacity—install two lite rows now, add a third later.



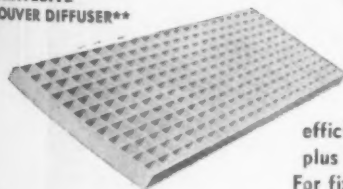
NEW FUTURLITE

The new, crystal-beautiful prismatic louver-lens. Thousands of plastic prisms create ever-changing light patterns. Breathing action assures better maintenance, cooler operation. Available on many fine Guth luminaires.



PRISMOID-GRATELITE*

GRATELITE LOUVER DIFFUSER**



The 3/8" cubes create an entirely new dimension of beauty in lighting, with sight-saving low-brightness, efficient light and air diffusion plus high-intensity illumination. For fixtures or complete ceilings.

* T. M. Reg.
U. S. & Can. Pats. Pend.

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AMERICAN SCHOOL AND UNIVERSITY—1958-59



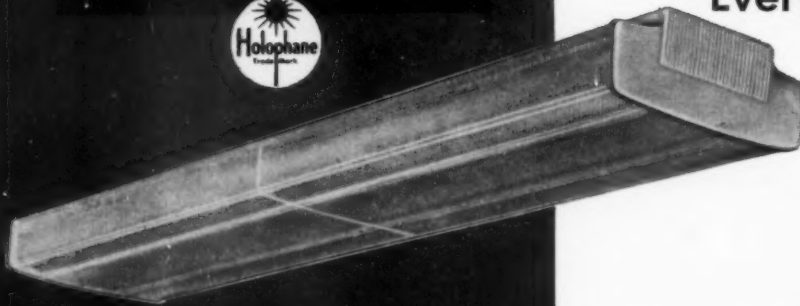
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SURFACE ATTACHED FLUORESCENT



CLASSROOM — CEILING
ATTACHED INCANDESCENT



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There is a Holophane Luminaire Specifically Engineered for Every School Lighting Need

Holophane has the concentrated skills and experience to provide the best illumination for every area in the modern school or college . . . Better lighting means better vision, greater safety and increased efficiency for both pupils and teachers . . . Holophane Engineers offer consultation, without obligation, on any school lighting project.

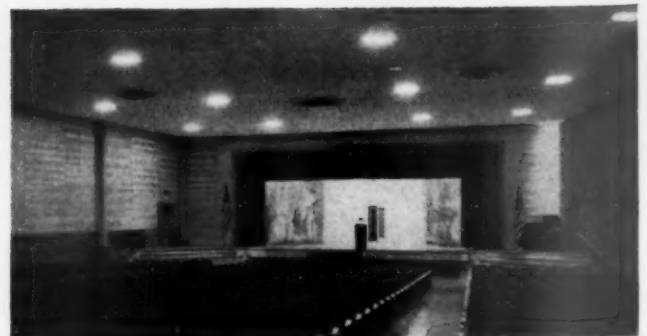


Left—
Cafeteria
Surface
Attached
Fluorescent

Right—
Classroom
Ceiling
Attached
Incandescent



Below—
Auditorium
In-Built
Incandescent



HOLOPHANE COMPANY, INC.



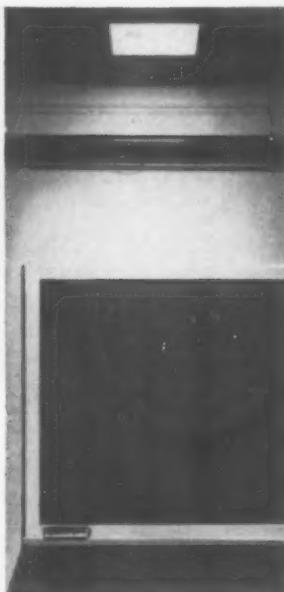
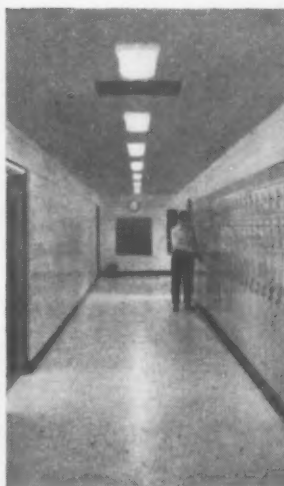
Classroom Surface Attached Fluorescent



Classroom Recessed Incandescent



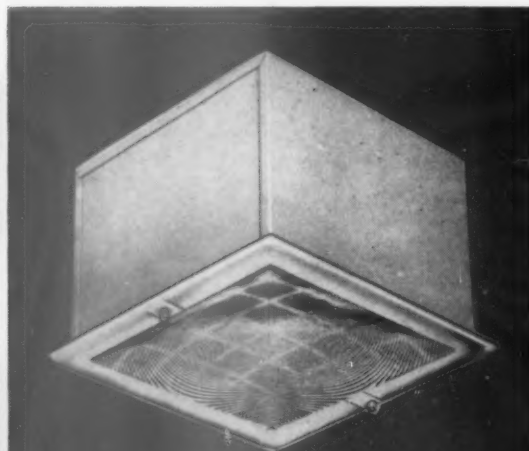
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Blackboard
Vertical Surface Lighting

Corridor

For over
60 YEARS

Holophane has
Specialized in the
Finest Lighting
for Schools
and Colleges.

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INCANDESCENTCORRIDOR — SURFACE ATTACHED
INCANDESCENTGYMNASIUMS — POOLS — VOCATIONAL SHOPS
LOBAY INCANDESCENT

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Apparatus Sales Division

1 River Road, Schenectady 5, N. Y.

Adequate light, yes — But WHAT'S THAT HUMMING?



Many fluorescent lighting installations are furnishing the specified light, but they are also furnishing the unspecified—*noise*. Every ballast has a normal magnetic hum. However, the intensity of the humming in fixtures is not only dependent on basic ballast construction and ballast rating, but also on fixture construction and installation which contribute to noise amplification. Because of these variable factors, fluorescent lighting installations can range all the way from silent to noisy and annoying.

General Electric's new, exclusive ballast Sound Rating Calculator now makes it possible for specifiers of fluorescent lighting installations to determine *beforehand* whether or not they will encounter a noise problem.

The noise level of your school or university classroom and library is of the utmost importance to you and your students. Make certain you take advantage of this new development from General Electric while current projects are in the planning stages. You can obtain this new Sound Rating Calculator by sending a check for one dollar to: General Electric Company, Section 640-477, Schenectady 5, N. Y.



G. E.'s new sound laboratory pays off in quieter ballasts for you. Sound engineers test every new design and spot-check production models in an attempt to find new methods and materials to give you a quieter ballast.



On-the-spot application-engineering assistance is also available. Nearly 100 ballast application engineers located throughout the United States stand ready to assist you. They are as close to you as your telephone.

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An all-inclusive electrical supply service for schools and universities

Through its nation-wide network of warehouses and offices, GRAYBAR distributes the products of more than 300 of the nation's leading manufacturers of electrical equipment and supplies. Its services are based on 89 years of experience in the electrical field.

Experienced GRAYBAR Representatives and equipment Specialists perform many useful functions for the school superintendent, school architect, the electrical contractor, and the buyer of electrical maintenance supplies—going far beyond mere “order-taking.”

Aid in Electrical Planning

GRAYBAR is fully informed on modern equipment for school lighting, communication, signaling and alarm systems. Specialists familiar with school installations in many communities will advise on choice of equipment and planning of the system you desire.



Convenient Service

From a near-by GRAYBAR warehouse you or your electrical contractor can order a wide variety of electrical items — a fact that's particularly helpful in emergencies and often saves valuable time even on everyday requirements.



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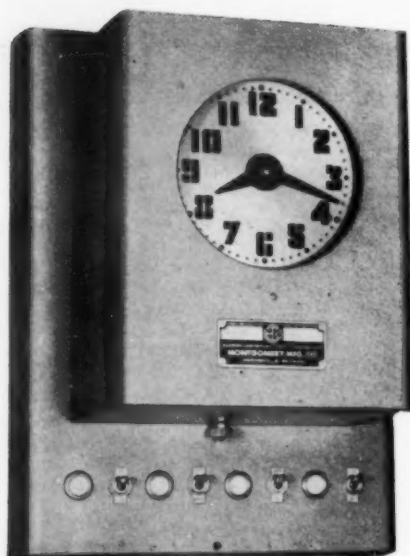
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MONTGOMERY MANUFACTURING COMPANY

200 S. Main Street, Owensville, Indiana

BEST WAY TO RING CLASSROOM SIGNALS AUTOMATICALLY



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The new, Montgomery Multi-Circuit Program Clock saves time, offers flexible, smooth-running schedules. Operates with as many as five separate schedules on one to five circuits or groups of signals. Available with one to five program disks . . . 12 or 24 hour models. Signal duration adjustable from 2 to 25 seconds. Ideal for new, modern installations; easily adapted to existing signal systems. Program mechanism and clock movements perfectly synchronized, set simply by turning clock hands. Calendar switch dials regulate signals for days, nights, weekends. Push buttons provide for special signals without disturbing automatic operation.

ARCHITECTS:

These clocks will enable you to meet minimum cost specifications without sacrificing essential signal controls.

Montgomery

SYNCHRONOUS

PROGRAM CLOCKS

Montgomery Automatic Calendar Switch:

- regulates signals on days, nights, weekends
- provides alternate schedule operation



CLASSROOM



GYM



SHOP



PLAYGROUND



MODEL M & L

This Montgomery Synchronous Program Clock activates one or two electrical circuits on any pre-arranged schedule. Models for 12 or 24 hour schedules with 2½ and 5 minute intervals. Adjustable signal duration from 2 to 25 seconds, with 5 second signal as standard. Automatic calendar switch regulates signals for days, nights, weekends. Program mechanism automatically set by turning clock hands, assures perfect synchronization. Push buttons for special signals without disturbing automatic operation. Simple, rugged construction. Trouble-free. Easy to install. Easily applied to new or existing signal systems. Clock unit in compact gray case with attractive, baked enamel finish.

ATTENTION SCHOOL OFFICIALS:

Have your architect specify a Montgomery Clock for new construction.

NOTE: Available in 2½ and 3 minute intervals for 12 hr. clocks; in 5 or 6 minute intervals for 24 hr. clocks.

ORDER FROM YOUR SCHOOL SUPPLY DEALER

AMERICAN SCHOOL AND UNIVERSITY—1958-59



INTERNATIONAL BUSINESS MACHINES CORPORATION

590 MADISON AVENUE, NEW YORK 22, N. Y.

C-7/IBM

ELECTRONIC and ELECTRIC TIME and PROGRAM SIGNALING CONTROL SYSTEMS

IBM ELECTRONIC and ELECTRIC SELF-REGULATING TIME and SIGNALING SYSTEMS are designed to maintain accurate and uniform time in all clocks, time signals, and time recorders. The master control is the "director" of each system, supervising all time units and automatically correcting those units which, when temporary power outages occur, do not agree with the master. The three types of IBM self-regulating time and program signaling systems are:

THE ELECTRONIC SYSTEM operates over regular AC lighting wires. *No special wiring* is required to control and automatically correct, if necessary, time and signaling units in this system. Uniform time is maintained in all clocks, time signals and time recorders by the automatic transmission of high frequency pulses superimposed on the lighting wires.

THE SYNCHRONOUS, WIRED SYSTEM operates on regular AC lighting wires. Automatic correction of units at variance with the master's time is accomplished through a separate circuit of wires connecting the master control and secondary units. As in the electronic system, uniform time is maintained automatically in all time units in this system.

THE MINUTE IMPULSE, WIRED SYSTEM is designed for operation and automatic regulation of all clocks, signals, and time recorders over circuits of control wires connecting the master and secondary units. Uniform time is maintained automatically to the minute in all secondary units by transmission of impulses over the control wires.

CENTRAL CONTROL SYSTEMS

IBM CENTRAL CONTROL SYSTEMS provide a simple, efficient means of actuating many ON-OFF operations automatically . . . by electronics . . . without special control wiring. Centralized control will save much of the time, effort, and resources necessary to your building's operation. Fuel, water, and electricity are used only as needed. On a pre-programmed schedule or manually from the central operations panel, the system will supervise lighting, heating, ventilating and other electrical switching functions. It also will supervise IBM clocks and audible signals to provide accurate, uniform time and program signaling.

This system is simple in character and involves only a few basic elements. A CENTRAL OPERATIONS PANEL, TRANSMITTER, and CODED RELAYS are its major components. Existing IBM Electronic Time and Program Systems furnish the means for easy addition of central control without the need for special control wiring.

FIRE ALARM SYSTEMS

IBM FIRE ALARM EQUIPMENT consists of alarm control cabinets, stations, and signals for the following types of fire alarm systems:

MASTER CODE, CLOSED-CIRCUIT, single or double-supervised, 1-4 signal circuits.

MASTER CODE, OPEN-CIRCUIT, non-supervised.

NON-CODE, CONTINUOUS-RINGING, closed-circuit, single-supervised 1 or 2 signal circuits.

SELECTIVE CODE, CLOSED-CIRCUIT, single or double-supervised and 1-4 signal circuits.

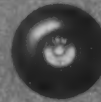
SELECTIVE CODE, PRE-SIGNAL, closed-circuit, single or double-supervised and 1-4 signal circuits.



RADIO-SUPERVISED
MASTER CLOCK



MASTER TIME
and PROGRAM CONTROLS



BELLS



WALL
CLOCKS



MODERN
SQUARE CLOCKS



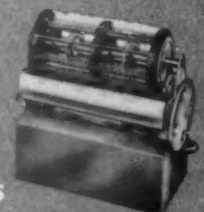
DOUBLE DIAL
CLOCKS



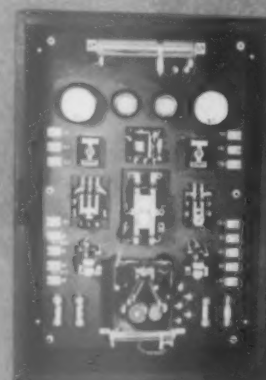
CENTRAL
OPERATIONS PANEL



ELECTRONIC
CODED RELAYS



PROGRAM MACHINES



FIRE ALARM
CONTROL
CABINETS

FIRE ALARM
SIGNAL
STATIONS





CONSOLE



KEYBOARD



AUTOMATIC
TYPEWRITER

610 AUTOMATIC DECIMAL POINT COMPUTER

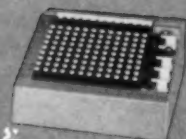
THE 610 COMPUTER is a compact desk-side calculator designed for use by individual scientists, engineers, businessmen and research technicians. It is flexible enough to allow any degree of program sophistication from a desk calculator to a fully automatic data processing computer. Because of its flexibility and use by the man with the problem, its range of application is extremely broad. Among its many outstanding features are:

Ease of Programming—With the 610, the individual with the problem is able to achieve a quick solution with a minimum of effort using simple sentence type instructions differing little from the manual method. Simultaneously, the machine will "remember" the operations performed in the form of punched paper tape. Subsequent runs of the same problem are automatic, stopping only for new data entered manually from the keyboard or automatically from the tape.

Automatic Decimal Point—When data is entered into the 610, the decimal point is included in its proper position. Throughout all subsequent calculations, the decimal point is automatically positioned relieving the programmer of the tedious responsibility for scaling.



CONSOLE



KEYBOARD



CARD READER

AUTOMATIC PRODUCTION RECORDING SYSTEMS

IBM AUTOMATIC PRODUCTION RECORDING systems provide a new link in industrial data handling between the production floor and office. These systems automatically collect, correlate, store, and record production data from suitable measuring instruments. Production variables such as weight, quantity, dimension, temperature, pressure, and flow are programmed for automatic collection. These, with related information which identifies the process and product, are automatically recorded in printed reports and punched tape and punched card forms for accurate cost, production, and inventory control, inspection and quality control and other management and plant operations report.

Punched cards and punched tapes provide the means for direct IBM Data Processing Machine handling.



FULLY-AUTOMATIC
ATTENDANCE
RECORDERS



8200 TIME PUNCH



JOB COST
RECORDERS



FULLY-AUTOMATIC
TIME STAMPS

TIME RECORDING EQUIPMENT

NEW IBM 8200 TIME PUNCH registers the time and variable data in IBM cards in punched hole form for direct input to Data Processing machines. Two models are available: Model 1 punches the time only, while Model 2 punches the time and six digits of variable data. Verification and key punching are eliminated... assuring reliable and current machine reports.

ATTENDANCE TIME RECORDERS are available for AC or Master Control operation. These machines record the IN and OUT time on individual cards of personnel. In addition to recording attendance time, fully-automatic recorders will control the sounding of time signals to indicate starting and stopping times and also will control a circuit of wall clocks for coordination of time indicated with the time recorded and signaled.

JOB COST RECORDERS are available for operation from AC or a Master Control. The purpose of these machines is to provide accurately printed records of the time jobs or operations are started and finished. The elapsed time becomes the basis of true cost figures.

TIME STAMPS print the year, month, date, hour, and minute of receipt and dispatch of mail, correspondence, and documents. IBM manufactures two types: a fully-automatic, electric-print stamp which changes from day to day and month to month automatically and a semi-automatic stamp, which requires a manual typewheel change each month. AC or Master Control operation.

ELECTRIC TYPEWRITERS

IBM ELECTRIC TYPEWRITERS eliminate typing drudgery . . . produce clear, crisp, uniform typing without requiring uniform touch . . . increase typing productivity by decreasing typists' fatigue. IBM's unparalleled quarter of a century of electric typewriter leadership offers reliable assurance of lasting craftsmanship in both IBM Standard and IBM "Executive" typewriters.

The IBM Standard is a superior teaching instrument. Actual classroom experiments have proven it to be "The Teaching Typewriter."

The "Proportional Spacing" feature of the IBM "Executive," which permits even right- and left-hand margins, makes it possible for the typist to prepare copy for yearbooks, bulletins and other school publications.

THE NEW IBM 632 is a remarkably versatile desk-sized electronic typing calculator. It is a high-speed, low-cost automatic computer that can be operated by any typist in applications now requiring separate calculating and typing operations.

Students trained on the IBM Electric Typewriter can operate the new IBM 632 with only minutes of instruction, since the electronic features of the machine virtually eliminate all operator decision.



STANDARD
ELECTRIC
TYPEWRITERS



EXECUTIVE
ELECTRIC
TYPEWRITERS

632 ELECTRONIC TYPING CALCULATOR



DATA PROCESSING

The need for increased mechanization of data processing has long been recognized by those concerned with this area of business, science, engineering, education, and government. Increasingly, IBM machines and systems are providing operating efficiency while reducing time and costs. Flexibility, speed and accuracy are all prime advantages to the user. With a full, versatile line of electronic and electric equipment, IBM continues pioneering in this challenging field of data processing.

IBM CARDTYPE gives the growing school the opportunity to process class lists, grade reports, and post permanent records as well as handle payroll, accounts payable, and inventory accounting problems with the same accuracy and flexibility inherent in larger punched card machine installations.

IBM PUNCHED CARD ACCOUNTING MACHINES give institutional and business management a broad or detailed, current picture of any phase of operations. These machines, many of them embodying the latest principles of electronics, bring tremendous speed to the preparation of payrolls, inventory records, cost analyses, registration, administration, and statistical accounting, as well as to other accounting, statistical, and computing activities.

THE IBM ELECTRIC TEST SCORING MACHINE provides an accurate means of scoring and analyzing objective examinations. Multiple-choice, matching, true-false, like-dislike, agree-disagree, and weighted item tests—all can be scored at the speed of 500-800 tests an hour regardless of whether there are 10 or 150 questions. This time-conserving machine permits a wide expansion of school testing programs.

Special analyses can be obtained through the use of two attachments: the Aggregate Weighting Unit, which computes weighted averages, and the Graphic Item Counter, which counts the number of pupils who answered each question correctly or incorrectly.



CARDTYPES



ACCOUNTING MACHINES



TEST
SCORING
MACHINES



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Knoxville
Memphis
Nashville

TEXAS

Austin
Beaumont
Corpus Christi
Dallas
El Paso
Fort Worth
Galveston
Houston
Lubbock
San Antonio
Tyler
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Salt Lake City

VERMONT

Montpelier

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Olympia
Richland
Seattle
Spokane
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WEST VIRGINIA

Charleston
Huntington
Wheeling

WISCONSIN

Green Bay
Madison
Milwaukee

INTERNATIONAL BUSINESS MACHINES CORPORATION

590 Madison Ave., New York 22, N. Y.

D INSTRUCTIONAL & ADMINISTRATIVE

1. Instructional and Audio Visual Equipment

Automatic Voting Machine Corporation, Drivotrainer Division	D-1/Au
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Lightmaster Screen Co.	D 407
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Wenger Music Equipment Company	D-2/We
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American Seating Company	D-4/AmS
The Bassick Company	D-4/Ba
The Brunswick-Balke-Collender Company, School Equipment Division	D-4/BBC
Columbia School Furniture, Westfield Manufacturing Company	D-4/Col
General Electric, Laminated Products Department	D-4/GE
Heywood-Wakefield Company	D-4/He
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Sound-Craft Systems	D-4/So
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5. Cabinets

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School Equipment Manufacturing Corporation	D-5/Sc
Borroughs Manufacturing Company, A Sub. of The American Metal Products Company of Detroit	D 446
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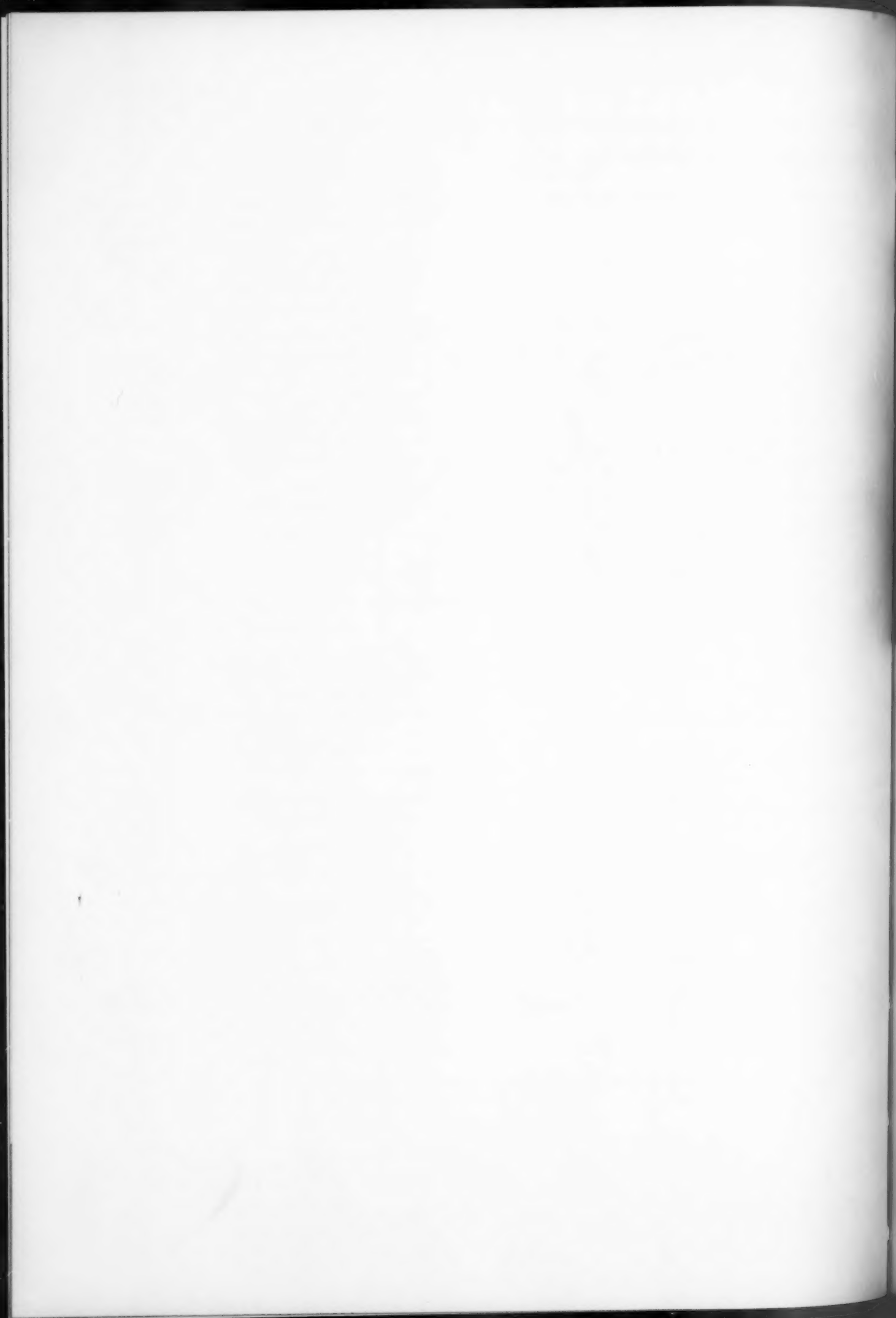
6. Library

Art Metal Construction Co.	D-6/Ar
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The Holliston Mills, Inc.	D 440

7. Administrative Office—Business Education

All-Steel Equipment Inc.	D-7/Al
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Note: Manufacturers represented with complete catalogs are listed in bold face.



DRIVOTRAINER...

A CAR FOR THE CLASSROOM



Drivotrainer classroom at Parkview High School, Springfield, Missouri. Each of the classroom cars has all of the instruments and controls found in a real car. All of the students' driving actions are automatically recorded for the teacher's benefit on a master score sheet.

The Drivotrainer is a precision electro-mechanical training device. This newest of visual-aid units is composed of three basic elements; the Drivotrainer car; the Recorder or Group Control Unit; and a Film Course of Study.

The students, seated in their cars, "drive" through various situations depicted upon the screen. As the students make use of the controls on their cars, the Recorder prints a record of what each student is doing so that the teacher can follow the progress of the entire classroom.

By enabling beginning drivers to develop their driving skills in these classroom cars, without actually going on the highway, the student is given initial learning experiences at no risk to himself or others. It has proven particularly valuable in teaching basic driving skills and good driving judgement and attitude.

Through the use of the special training films, the students are exposed to greater varieties of traffic problems and emergency situations which they could not ordinarily experience in a conventional program.



As evidence of the complete training given the students, backing up is accomplished by having the student look into a mirror over his right shoulder to see the picture on the screen in front of them. The captions and features in the movie are printed in reverse to appear correct when viewed through the mirror.

See next page for additional information and cost comparisons

Write today for complete Drivotrainer Fact File

DRIVOTRAINER DIVISION, AUTOMATIC VOTING MACHINE CORPORATION, Jamestown, N. Y.

PRINCIPAL COMPONENTS

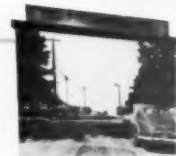
THE AETNA CAR

Each car is a stationary vehicle six feet long and three feet wide, weighing about 400 pounds. It is equipped with all essential instruments and controls including manual and automatic shift units. Seated in this car, the student has the illusion of driving. Motor noise, clutch "friction point" and brake pedal "feel" all add realism.



ON THE ROAD

The core of the Drivotrainer system of instruction is the series of special training films which progress the student from basic fundamentals to a final road test including emergency situations. These films, produced under the guidance and cooperation of the Drivotrainer Curriculum Advisory Committee, The New York City Board of Education and other educational consultants use accepted educational techniques making the course basically sound and comprehensive.

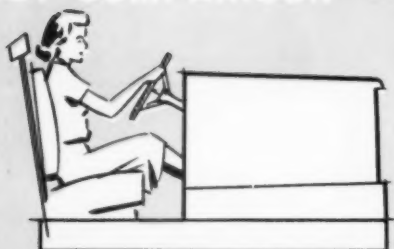


THE RECORDER AND PROJECTOR

All of the operating controls on each car are connected electrically to the recorder at the rear of the classroom. Each student's correct or incorrect actions are individually imprinted on the master score sheet.

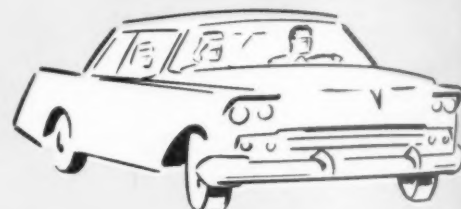


COST COMPARISON



15 PLACE DRIVOTRAINER

VS.



DUAL CONTROL ONLY

TEACHING COSTS

Periods of instruction per year.....	900
Pupils trained per period.....	15
Pupils trained/teacher/year.....	900
Teacher Salary.....	\$5,000.00
Teaching cost per pupil.....	5.55

OPERATING COSTS

10 year amortization per pupil of Capital investment (15-place).....	2.00
Maintenance cost/pupil/year.....	.56
Total Cost per Pupil.....	8.11

TEACHING COSTS

Periods of instruction per year.....	900
Pupils trained per period.....	4
Pupils trained/teacher/year.....	120
Teacher Salary.....	\$5,000.00
Teaching cost per pupil.....	41.67

OPERATING COSTS

Gas and Oil per year ...	\$250.00
Insurance.....	150.00
Miscellaneous.....	100.00
Operating cost per pupil.....	4.17
Total Cost per Pupil.....	45.84

COMBINED COURSE



3 Hours (15 periods) dual control @ 7.64 per hour.....	22.92
12 Hours (15 periods) Drivotrainer.....	8.11
Total cost per Pupil.....	31.03
Savings per Pupil.....	14.81
Annual Savings (900 Pupils).....	\$13,329.00

Complete Drivotrainer Fact File on request. Write today

DRIVOTRAINER DIVISION, AUTOMATIC VOTING MACHINE CORPORATION, Jamestown, N. Y.



is for

TV **teaching**

GPL/NTS is for...

Two top companies unite to bring educators

The Best in Closed-Circuit TV

See for yourself! *Don't settle for any closed-circuit television until you've seen how completely the GPL/NTS Team answers all your school needs!*

You'll see GPL equipment — finest in the field! Closed-circuit television that has *had* to be the best to achieve its pre-eminent position in military, broadcast, and industrial TV!

You'll get the quality that made GPL equipment the inevitable choice for front-page "firsts" in closed-circuit programs — the Salute to Eisenhower Dinners, which linked 52 cities — the Heart Video-Clinic, viewed by 35,000 medical specialists — the General Motors Motorama, celebrating its 50 millionth car — the nationwide theatre broadcasts of heavyweight championship fights.

GPL leadership in designing TV for direct instruction, teacher training, magnification, and other special needs has made it the first choice for pioneering educational TV installations at over 30 schools and universities.* 90% of the nation's educational TV stations using video recorders are also GPL-equipped.

GPL equipment is simple to operate, versatile, surprisingly inexpensive. There's a full line of closed-circuit equipment to fit the needs of a single school or an entire school system.

National Theatre Supply Company, a prominent supplier of projection and auditorium equipment for schools, has teamed up with GPL to assume complete responsibility for all your School TV needs.

*Details on request.



Branches in principal cities

Both are member companies of the highly respected GPE Group.

Call on the Educational Television Division of NTS for free demonstration in your school of how this GPL/NTS set-up answers all your needs. A national network of company offices — the largest nationwide sales and service organization offering TV equipment for schools — brings an NTS representative as close as your telephone!

Technically trained and with over 30 years of experience in field service, your NTS representative is qualified to help you at every step in choosing, installing, and maintaining your closed-circuit TV.

He will sit down with you, your school committee, or your architect, to discuss the preliminary requirements of a TV installation. He will give you practical advice on the selection of the right equipment. He will take full responsibility for delivery and installation, financing if required. He will follow through by instructing teachers and students in its everyday use.

Maintenance is no problem with NTS! Parts and service are promptly available anywhere in the United States. Your NTS representative is steeped in the tradition of "the show must go on," so he stands ready to help in any emergency — anywhere — at any hour of the day or night.

The GPL/NTS Team...



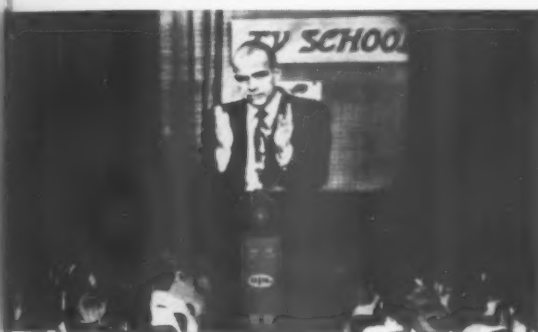
1. FIRST MEETING with NTS representative is discussion of school's problems. He shows GPL equipment, describes operation.



2. GPL CLASSROOM CAMERA gives all students front-row seats at science, laboratory and other demonstrations.



3. GPL VIEW-FINDER camera, for studio or classroom use. Makes it easy to follow every move made by the instructor. Light and compact, it draws little current. Plugs into ordinary electrical outlet.



4. BRIGHT, WALL-SIZE TV PROJECTOR lets 1,000 people watch broadcasts picked up "off the air," or closed-circuit programs, in school auditoriums or in large multi-purpose rooms.



5. SINGLE-UNIT CAMERA (GPL "500") has built-in controls. You can add accessories to expand system as your school's needs increase.



6. INSTRUCTING students to operate GPL equipment, NTS man explains how to use view-finder camera. Depend on him for service any time, anywhere.

For free demonstration or more information, write or phone collect to Mr. H. Barnett, Director, Educational Television Products Division, National Theatre Supply Company, 92 Gold Street, New York 38, N. Y.; BEekman 3-4170.



Team... a single source for all your TV needs.

*For free demonstration or more information,
write or phone collect*

Mr. H. Barnett, Director, Educational Television Products
Division, National Theatre Supply Company, 92 Gold Street,
New York 38, N. Y., BEekman 3-4170; the Manager of the
NTS Branch nearest you; or the closest GPL Regional Office

NTS Branch Offices

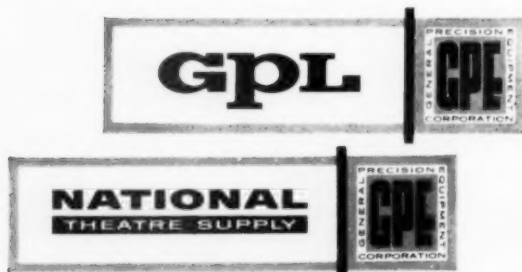
	ADDRESS	TELEPHONE NO.	MANAGER
ALBANY 4, N. Y.	962 Broadway	5-1479	R. J. Mauro
ATLANTA 3, Ga.	187 Walton Street, N.W.	JAckson 4-8486	J. C. Brown
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BOSTON 16, Mass.	37 Winchester Street	LIberty 2-2663	H. J. McKinney
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CHICAGO 5, Ill.	1325 S. Wabash Avenue	WAbash 2-8266	R. P. Rosser, Jr.
CINCINNATI 10, Ohio	1714-16 Logan Street	MAIn 1-6580	J. A. Conn
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SAN FRANCISCO 2, Cal.	255 Golden Gate Avenue	MArket 1-4171	H. H. Randall
SEATTLE 1, Wash.	2319 Second Avenue	MAIn 3422	H. L. Plunkett

GPL Regional Offices

PLEASANTVILLE, N. Y.
63 Bedford Road
Tel: ROgers 9-5000

LA GRANGE, Ill.
23 W. Calendar Avenue; Box 307
Tel: FLeetwood 2-9330

PASADENA, Cal.
21 N. Santa Anita Avenue
Tel: SYcamore 5-5869



a single source for all your TV needs



RCA Aids to Education

PRODUCT LITERATURE

This catalog can only give a broad picture of the many audio-visual and other aids RCA provides for educational use. Only a few types and models of many items are shown here. More complete literature is available on request for each type of equipment.

RCA EDUCATIONAL SERVICES

RCA Victor has maintained an Educational Service since 1911 to assist educators in the selection of audio-visual aids for school use. This free service is available at all times on request. Its members are completely familiar with school needs and developments in this field, and will be pleased to help in the solution of your problems.

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for further information write to:

educational services Dept. 58C

RADIO CORPORATION OF AMERICA

Camden 2, New Jersey



SOUND SYSTEMS

Illustrated below are two central control type sound systems. RCA manufactures a complete line of sound equipment, plus individual items such as microphones, amplifiers, speakers, etc., which can provide any type of sound system required. RCA Sound Distributors and RCA Field Engineers are available for consultation on your school sound requirements.

WHERE OBTAINED: RCA Sound equipment is sold through authorized RCA Sound distributors. The location of one nearest you will be supplied on request. These distributors will be glad to recommend the best equipment for what you want to do, and quote you complete prices.

Single Channel Console



Type MI-14950, single channel console, designed for the small and medium sized school, furnishes a centrally located and controlled sound distribution system. Unit permits immediate transmission of news, announcements, recorded programs, time signals or material received on AM/FM tuner to areas in which a speaker is mounted. Communication between any remote area and the control desk is accomplished without interference to programs being broadcast.

- Broadcast station control room type console
- Provision to amplify and control distribution of AM/FM Tuner and/or recordings
- Up to 10 low or high impedance microphone inputs
- One phonograph input selector
- Intercommunication on separate independent channel
- Single emergency switch to broadcast instant signal to all areas
- Program monitored visually or orally prior to distribution
- Up to 40 rooms contacted individually, in groups, or all simultaneously
- All controls located within 10½ inches of height
- Dirt protected room designator cards on each room selector switch panel
- 30 watt program amplifier
- 10 watt intercommunication amplifier
- Smooth steel construction of symmetrical appearance
- Finished umber gray
- All parts easily accessible for servicing
- Approved by Underwriter's Laboratories, Inc.
- Tape Recorder input and output

Dual Channel Deluxe Console



Type MI-14951 dual channel deluxe console furnishes a centrally located and controlled sound system permitting distribution of program to as many as 200 rooms or areas. Immediate transmission may be made of news, notices, recorded music, emergency signals and programs received on AM or FM tuners. Special events in gymnasium or auditorium may be broadcast to any area in which a speaker is mounted. Communication between control board and any other area is accomplished without interfering with broadcast program. This allows broadcasting of two programs simultaneously while conversing with any other area by means of the intercommunication system on a "third channel."

- Broadcast station control room type console
- All controls located within height of 10½ inches
- Additional room selector banks may be added to control up to 200 rooms
- Up to 200 areas contacted individually or simultaneously
- Two individual program amplifiers permit simultaneous broadcast of different programs
- 10 watt intercommunication amplifier
- Individual intercom amplifier permits 2-way conversation
- Four low or high impedance microphone inputs
- Tape recorder input and output
- Provision to amplify and control distribution of AM/FM tuners and recordings
- Single switch operation to broadcast emergency signals to all speakers
- Program monitored visually or orally prior to distribution
- Constructed of smooth steel—Finished in umber gray
- Parts easily accessible for servicing
- Approved by Underwriters' Laboratories, Inc.



SOUND COMPONENTS

WHERE OBTAINED: RCA Sound Components are sold through authorized RCA Sound distributors; the location of the one nearest you will be supplied on request. RCA Field Engineers are also available for consultation on your school requirements.



MICROPHONES

RCA Engineering has developed a complete line of microphones for every purpose—over twenty different types, including: pressure-velocity, uni-directional, multi-directional, close-talking, broadcast, public address. Indoor and outdoor types, all designed for specific applications. Provide high quality performance. Choice of floor stand, desk stand or hand mikes.



SPEAKERS

RCA carries a complete line of high quality speakers designed to assure long life and to give dependable performance for any application. Specially designed speakers for classrooms, gymnasiums, auditoriums, athletic fields, shop areas, etc.

Speaker enclosures are also available, including such types as wall mounted, ceiling mounted (surface or flush), acoustical tile-block type and many others.



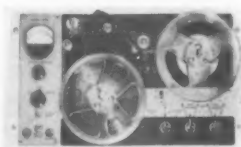
AMPLIFIERS

Excellent for music, paging and speech in any sound installation requiring medium power. Attractively styled and designed for simple operation and dependable performance. Can be used indoors and outdoors, in auditoriums, field houses, gymnasiums, lecture rooms, and many other locations.

Units are available with 15, 30 or 70 watt outputs. Includes separate bass and treble controls, phono and microphone inputs, and balanced or unbalanced outputs.



record changer

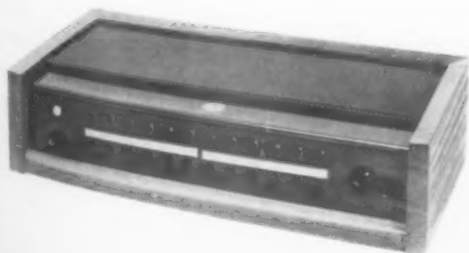


tape record-reproduce chassis

HI-FI COMPONENTS

From record changer to speaker, RCA intermatched high fidelity components guarantee the finest in sound reproduction. Designed to meet the highest standards in the industry—in engineering design, in production technique, and with a minimum of maintenance.

Professional type equipment includes a complete line of record changers, tuners, speakers, enclosures, pre-amplifiers, amplifiers, pickups, cabinets, and tape record-reproduce chassis. Smooth and uniform frequency response over a wide range—power capacities up to 20 watts—weighted turntables—4-speed players.



MULTI-COM SYSTEMS

RCA Multi-Com systems provide instantaneous communication between two or more locations. Superintendents, principals, business managers, purchasing agents and many others have found such a system to be an economical, effective method to reach key personnel at the flick of a switch.

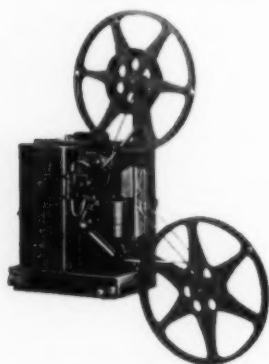
Systems are completely flexible with future expansions practical. Master stations can be connected with other master stations, remote stations or any combination of masters and remotes up to 6 or 48 key capacity.



16mm FILM PROJECTORS

WHERE OBTAINED: RCA Film Projectors are sold through authorized RCA Audio-Visual Dealers. The location of the one nearest you will be supplied on request, or look in your Classified Directory under "Motion Picture Equipment and Supplies."

JUNIOR MODEL



Consists of a projector and speaker built into a handsome surf-green carrying case. The detachable cover houses the speaker. The Junior is a compact, lightweight unit. It is ideally suited for school lecture halls and classrooms as it can be used for audiences of up to 400 persons. Its

7-watt amplifier is matched to a speaker which reproduces music and voice superbly. It can accommodate up to a 1200-watt pre-focused projection lamp. The Junior features built-in lubrication, simplest threading and extremely quiet operation. A 2-inch f/1.6 coated field flattener type projection lens is supplied. The projector's capacity is 2000 feet of sound or silent 16mm film. It plugs into a standard 110 volt a.c. outlet.

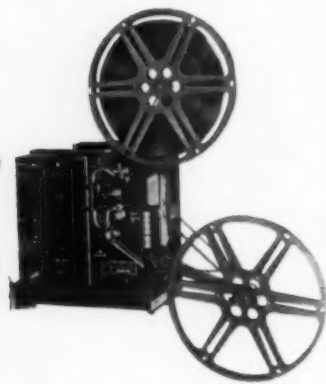
SENIOR MODEL



Offers all the advantages of the Junior: quick, easy setups, superlative sound and picture reproduction . . . plus a sound system that provides theatre quality sound for audiences up to 1000 persons. It has a more powerful 15-watt amplifier. The Senior's speaker is mounted in a separate

acoustically designed carrying case. It provides 20% brighter pictures through the use of 1200-watt projection lamps. A field-flattener type 2-inch f/1.6 coated lens is supplied. 2000 feet of sound or silent film can be projected without changing reels. Like the Junior, the Senior operates on ordinary house current. Also available as a one-case unit.

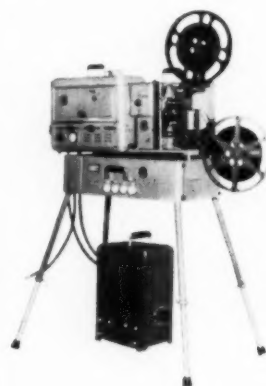
MAGNETIC RECORDER PROJECTOR



Records and plays sound from a magnetic stripe on the edge of motion picture film . . . just like a tape recorder. Erases, re-records at a flick of a switch. Plays optically recorded sound too. It is equipped with a powerful 15-watt amplifier and speaker in a separate

carrying case, providing theatre quality sound for audiences up to 1000 persons. A 2-inch f/1.6 coated lens is furnished. The projector's capacity is 2000 feet of 16mm sound, silent or magnetically striped film. It plugs into a standard 110 volt a.c. wall outlet. Also available as a one-case model with speaker in lid of case.

"PORTO-ARC"



For permanent or portable installations . . . can be disassembled into 5 convenient carrying cases. Carbon arc assures adequate source of pure white light for largest auditorium showings. Its powerful 25-watt amplifier delivers clear, life-like sound to all parts of the room. Quick, simple, accurate controls.

Assembles in 5 minutes or less. Projector is standard RCA unit with safety and operation features required for professional equipment. Amplifier is adaptable to all normally used auditorium speaker equipment, has separate volume controls for picture sound, microphone and record player inputs.

RCA "Scholastic"

TAPE RECORDER and RECORD PLAYERS

WHERE OBTAINED: RCA "Scholastic" record players and tape recorders are sold only through authorized RCA Audio-Visual Dealers. The location of the one nearest you will be supplied on request, or look in your Classified Directory under "Motion Picture Equipment and Supplies."

4-Speed Portable



Classroom filling sound from an economically priced player. Two-speaker system reproduces sound superbly. Special "ruggedized" school features include: metal reinforced corners, reinforced speaker grille, guarded tone arm, scuff-resistant case. The "Scholastic" portable plays all 4 speeds and boasts an easily replaceable ceramic cartridge with "flop-over" needle changer. Its "45" spindle is permanently fastened. It weighs only 12 pounds.

4-Speed High Fidelity



Natural, lifelike, high fidelity reproduction of sound, long school life, and operating convenience are among the pleasures you'll enjoy with this new 4-speed player. Three-speaker "Tri-coustic" sound performs with thrilling realism. Excellent frequency response and intermatched amplifier — speaker — baffle system produces sound that fully deserves the name "High Fidelity." This player includes a provision for play-back through external loudspeaker and has a microphone input for public address use. Special school design includes locking screw to protect tone arm, reinforced speaker grille, metal reinforced corners, scuff-resistant case and impact-resistant chassis. The EDR-2 is a 4-speed unit with individual volume, bass and treble controls.

High Fidelity Tape Recorder



Natural high fidelity reproduction through "Tri-coustic" three-speaker system. Fool-proof push-button controls permit instantaneous selection of functions. Two recording speeds; one for music, one for voice. Reinforced speaker grille, impact-resistant chassis, and scuff-resistant case make it right for school use. The "Scholastic" Tape Recorder has provision for play-back through external loud speaker and can also be used as a portable public address system. These features make for extremely simple operation: "speedometer" type footage counter, neon overload lights, voice-music switch, radio-phonograph input.

RCA EDUCATIONAL RECORDS



- Record Library for Elementary Schools
- "A Singing School"
- Folk and Square Dance Series
- Instruments of the Orchestra
- History of Music in Sound
- Language Record Courses

Now every teacher can put across a really effective music program right in the classroom. These specially planned RCA Victor Educational Records make it easy for even a teacher untrained in music to cover basic fundamentals of music appreciation . . . and much more. Used in thousands of schools across the country.

You can obtain a personal copy of the complete RCA Victor Educational Record Catalog by writing directly to the Educational Services Dept., Camden, N.J.

RCA Victor

TAPE RECORDERS – VICTROLAS® – RADIOS

WHERE OBTAINED: RCA Victor products are sold through regular RCA Victor Radio and Television dealers throughout the United States. Dealers will be happy to give a no-obligation demonstration and quote school prices.

Standard Victrolas



Whatever your music needs . . . price range . . . or style preference; you can select from RCA Victor's wide selection of sixteen standard "Victrola" record players.

Smartly styled, sturdily constructed cases are designed to take hard knocks and to provide many hours of listening pleasure. Models available in single-speed players (45 rpm), two-speed players (45 and 33 1/3 rpm), or four-speed players (78, 45, 33 1/3 and 16 2/3 rpm).

Tape Recorders



All RCA tape recorders have automatic push-button controls; quick, sure threading; two speeds; neon volume indicators; oversized "stop" bar and extra-fast forward and reverse. Record with specially designed ceramic microphone or directly from radio-TV-phonograph.

Available in sturdy portable units or as a consolette on wheels. Can be operated remotely or played through external speaker or public address system. Portable units with three speakers at budget prices.

High Fidelity Victrolas



Ten RCA Victor "High Fidelity" instruments ranging from low cost portables to multi-cabinet systems:

PANORAMIC SOUND—All models use three or more speakers. 4-SPEED RECORD CHANGER—Play any or all record speeds. POWERFUL CHASSIS—Outputs from 3 to 54 watts. CONTROL PANEL—Separate volume, bass, treble controls. EXTRA SENSITIVE TONE ARM AND PICK UP—For the best possible reproduction with the least distortion. STEREO-SWITCH—Units can be used in stereophonic systems. AM-FM TUNER, TAPE RECORDER—Optional in some models, standard equipment in others.

Radios



Table radios . . . Portable radios . . . AM-FM radios . . . Transistor radios . . . Clock radios . . . Radio-Victrola combinations . . . Short wave receivers. Choose from twenty-seven different models.

Whether your school has need of a low-priced table set or a five-speaker high fidelity instrument, you can always be sure of peak performance when it's an RCA Victor.

RCA TELEVISION SYSTEMS FOR TEACHING

The successful application of television for teaching has been reflected in the growing number of Television Teaching Centers already in operation in many schools and universities. RCA equipment now being used in these centers is providing quality programming and economical, trouble-free operation. RCA maintains a trained staff of field engineers working from regional offices throughout the country. These engineers are available for consultation as to your school requirements—without obligation of any kind. For the location of the one nearest you, please write to the RCA Broadcast and TV Equipment Department, Bldg. 15-6, Camden, N.J.

Teaching Studio



Classrooms



Lecture halls, auditoriums



STUDIO CAMERAS

RCA offers a wide range of top performance TV cameras with proved TV studio and educational TV use. The TK-15 vidicon, the TK-11 image orthicon or the remote controlled vidicon cameras are superior choices for beginning your expand-as-needed TV system.

CONTROL EQUIPMENT

RCA's complete line of monitors and switchers assure dependability in the vital studio control room. Operators view several monitors to maintain high technical standards, assure proper sequence of presentation. Pushbutton switching enables operator to integrate graphics and live elements smoothly, efficiently.

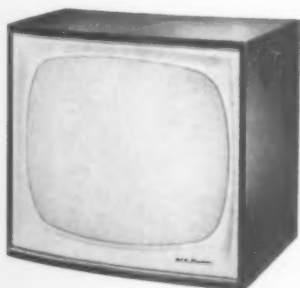
FILM EQUIPMENT

RCA film equipment rounds out the complete educational TV system. Available are economical, vidicon film cameras TK-21 (for black-and-white) and the TK-26 color film camera. Vital also for complete educational programming are RCA projectors—the TP-6, TP-16 and TP-400 for film—the TP-7 for slide presentations.

VIEWING EQUIPMENT

RCA black-and-white or color TV receivers are excellent for classroom viewing. Where large numbers of students view presentations in lecture halls or auditoriums, the RCA TV telemural projector, furnishing large screen pictures in both color and black-and-white, is a must item.

RCA Victor TV Receivers



WHERE OBTAINED: Television receivers are sold through regular RCA Victor Radio and Television dealers throughout the United States. Dealers will be glad to demonstrate various models for you and to quote school prices.

In all RCA Victor sets, whether color or black-and-white, tuning is fast and accurate, pictures are "mirror sharp," and reception is the finest for any area where a TV signal is received. And every RCA Victor chassis is designed to give quality performance without disturbing reception on nearby sets.

Whatever your requirements, there is an RCA Victor set to fit your needs. Portables, table models, or consoles—choose from over forty different instruments. For a

brochure showing the complete line for schools, ask your nearby dealer or write to RCA Educational Services, Camden, N. J.

RCA TEST EQUIPMENT

RCA carries a complete line of test equipment. Other items include audio signal generators, test generators for af, rf, uhf, and for both black-and-white and color TV. Also available: oscilloscopes, laboratory tube tester, and a line of accessories.

WHERE OBTAINED: RCA Test Equipment is sold through authorized RCA distributors. We will gladly supply the name and address of the one nearest you.

Senior Volttohyst



WV-98A Features a high-impedance, high-frequency, full-wave signal rectifier for direct readings of peak-to-peak voltages up to 4200. With this Senior Volttohyst you can readily obtain quantitative measurements of practically all important complex-waveform voltages found in video, sync, and deflection circuits. Has high input resistance, electronic protection against burnout, zero-center scale.

5" oscilloscope



WO-88A Combines all the essential features required for TV servicing. Built-in voltage calibrating facilities permit simultaneous waveshape display and peak-to-peak voltage measurements. Sync polarity may be reversed instantly by simply clicking a front-panel switch. Matched high-impedance probe gives the "88" an overall input resistance of 10 megohms and an input capacitance of less than 10_{unf}.

RCA ELECTRON TUBES

WHERE OBTAINED: RCA Tubes are sold through authorized RCA distributors. We will gladly supply the name and address of the one nearest you.



Receiving Tubes

A most complete line of receiving tubes for AM, FM, and television broadcasts are available, including rectifiers, detectors, converters, mixers, power amplifiers, voltage amplifiers, and oscillators.

Picture Tubes

Black-and-white picture tubes—including 25 "Silverama" aluminized types—as well as color picture tubes are available for television applications.

Electronic Components

Replacement components, including high voltage transformers, deflecting yokes, speakers, and selenium rectifiers.

Non-Receiving Tubes

A wide variety of electron tubes are available for broadcast, communications and industrial application; including TV camera tubes, photo-tubes, ignitrons, thyratrons, rectifiers, and cathode-ray tubes.

Batteries

A comprehensive line of dry batteries includes types to service virtually all portable radio requirements as well as types intended for industrial applications.

Semiconductor Devices

Semiconductor devices include hermetically sealed P-N-P type germanium junction transistors and hermetically sealed germanium crystal diodes of the point-contact type.

RCA ELECTRON MICROSCOPE

WHERE OBTAINED: RCA Electron microscopes are sold directly from this company. Let us know your plans and requirements, and we will be pleased to recommend the best equipment for your needs.



The RCA Type EMU-3 Electron Microscope is a powerful research tool which permits detailed study of particles, structures, and minute materials which are too small to be seen by other methods. Unusually flexible, the EMU-3 provides the high resolution, high magnification microscopy necessary to meet most diverse research requirements of science and industry. A less expensive model, the EML-1A, is also available.

features

- 20 Angstrom unit resolution • Variable direct magnification from 1400X to 50,000X
- Photographic enlargements to 300,000X • Large direct viewing screen • Selected area diffraction • Automatic vacuum valving • Extremely resistant to vibration and magnetic fields • Rear focal point objective aperture externally adjustable or removable • Electrostatic compensation.



for further information write to:
educational services Dept. 58C
RADIO CORPORATION OF AMERICA
Camden 2, New Jersey

CALIFONE CORPORATION

1041 North Sycamore Ave., Hollywood 38, California

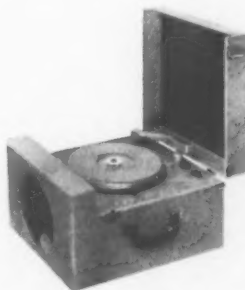
Manufacturers of Phonographs, Transcription Players and Complete Sound Systems



The Califone PREMIERE (5J-7)
\$64.95 + \$3.75 Excise Tax

Finest tone quality in a self-contained player for classroom, with easiest operation and portability.
High fidelity amplifier—5 watts undistorted, 7 watts peak.
8" extended range speaker.
3-speed 9" cork top turntable.
Safety pickup arm with self-locking arm rest.
Plays 7" to 12" records with lid closed.
Wide range tone control.
Dual needle ceramic cartridge.
Output jack for external speaker, amplifier, or headphone.
Weights only 12 pounds.

The Califone NEW YORKER (4J-8)
\$49.95 Net + \$3.20 Excise Tax
The standard of quality at a new low cost in a self-contained classroom phonograph.
4 speed turntable.
3-watt undistorted amplifier.
Pop-up 45 RPM center.
7-inch extended range speaker.
Dual needle ceramic cartridge.
Metal reinforced carrying case.
Weight 11 pounds.



The Califone EXECUTIVE (6U-7) \$74.95 Net
America's lightest weight and lowest priced player capable of playing 16" transcriptions.
Wrist-action pickup... Plays 7" to 16" recordings.
High fidelity amplifier—5 watts undistorted, 7 watts peak.
3-speed 9" cork-top turntable.
8" extended range speaker.
Tone control adjusts treble and bass.
Weights 11 pounds.

The Califone LISTENING CORNER (12VJ8-7) \$139.50 Net

Ideal for libraries and classrooms for group listening with headphones without disturbing others.
Multiple outlets for 8 sets of headphones.

Center drive continuous variable speed from 16-84 RPM.
Strobeselector for exact setting of 16 2/3, 33 1/3, 45 & 78 RPM.
Push Button Pick-up plays 7" to 16" recordings.
Push-pull amplifier—6 watts undistorted, 10 watts peak.

12" concert speaker. Weight 20 pounds.
Also available without speaker and carrying case for easy table-top mounting or for permanent installation... \$115.50 Net



The Califone CUSTOM IMPERIAL (400-7 CT) \$199.50 Net

The ultimate in classroom high fidelity with Custom Trio Speaker for full audible range to every seat in the classroom.
Push-pull amplifier—10 watts undistorted, 16 watts peak.
G.E. variable reluctance cartridge.
Push-Button pickup, plays 7" to 16" records.
Center drive continuously variable speed—16 to 84 RPM.

Strobeselector for exact setting of 4 speeds.
Scratch filter, separate treble and bass controls.
Heavy duty low frequency speaker with folded horn, and two high frequency speakers.
Weight 44 pounds.

Optional—Custom Imperial 400.7 with Stephens Trusonic speaker in single unit carrying case.

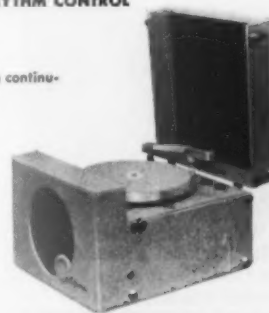
All prices quoted are School Net prices subject only to quantity discounts.

VARIABLE SPEED FOR RHYTHM CONTROL

The Califone CELEBRITY (7V-7)

\$94.95 + \$5.65 Excise Tax

Versatile classroom self-contained player with continuous variable speed for fullest use of rhythm.
High fidelity amplifier—5 watts undistorted, 7 watts peak.
Stroboscope for setting exact speed... 16- $\frac{2}{3}$, 33- $\frac{1}{3}$, 45 & 78 RPM.
Safety pickup arm with self-locking arm rest.
Wide range tone control.
Plays 7" to 12" records with lid closed.
8" extended range speaker.
Dual needle ceramic cartridge.
Output jack for external speaker, amplifier, or headphone.
Weights only 12 pounds.



The Califone DIRECTOR (12V-7) \$134.50 Net

The all purpose unit to serve most school and dance requirements. America's most popular transcription player. Sufficient volume from Records or Public Address for up to 1000 persons.

Center drive continuous variable speed from 16 to 84 RPM.
Strobeselector for exact setting of 16 2/3, 33 1/3, 45 and 78 RPM.
6 watts undistorted, 10 watts peak.
Push-Button Pickup for 7" to 16" recordings.
Mixer controls for mike & phonograph.
12" concert speaker.
Professional precision machined 10" turntable.
Dual needle ceramic cartridge.
Weight 20 pounds.

The Califone COSMOPOLITAN (14V-7)

\$144.50 Net... Dual needle ceramic cartridge

The Califone CONTINENTAL (16VP2-7)

\$154.50 Net... G.E. var. reluctance cartridge

A more powerful high fidelity portable all-purpose transcription player and Public Address system with sufficient volume for up to 1500 persons.

Push-pull ampl.—10 w. undistorted, 16 w. peak.

Push Button Pickup, plays 7" to 16" records.
Center drive contin. var. speed—16 to 84 RPM.

Strobeselector for exact setting of 4 speeds.

Scratch filter, separate treble and bass controls. 12" concert speaker. Weight 25 pounds.



The Califone PROMENADE (25V-8)

\$189.50 Net

America's most powerful single unit complete sound system. First choice among square dance callers. Audience coverage—3500 persons.

16 w. undistorted, 24 w. peak—bass boosted for dancing.
Center drive continuous variable speed from 16-84 RPM.
Strobeselector for exact setting of 16 2/3, 33 1/3, 45 and 78 RPM.
Push Button Pick-up, plays 7" to 16" records.
Spring cushioned rubber feet provide perfect tracking under roughest floor vibration.

2-12" custom concert speakers. Mixer for 2 mikes and phonograph. Weight 32 pounds.

The Califone COMMANDER (40V-7)

\$229.50 Net with 2 speakers — \$274.50 Net with 4 speakers.

The "El Dorado" for Square Dance Callers who want the finest system of all. Audience coverage 6000 persons.

25 w. undistorted, 40 w. peak.
2 heavy duty 25 w. speakers.
Center drive continuous variable speed from 16 to 84 RPM.
Strobeselector for exact setting of 16 $\frac{2}{3}$, 33 $\frac{1}{3}$, 45 & 78 RPM.
Input for 2 mikes.
Separate tone controls on phono and mike.

Spring cushioned rubber feet provide perfect tracking under roughest floor vibration.
2 EXTRA 15 w. SPEAKERS available mounted in 2 matching cases.



DAVID BOGEN COMPANY

A Division of The Siegler Corporation

P.O. Box 500, Paramus, N. J.



2-Way Communication With Any Room; handsets may be used to assure teacher privacy.



Bogen Emergency System: handsets automatically "take over" sound system, to broadcast alarm or directions throughout school.



Distribution Of Radio, Tape, Or Phonograph Programs and Announcements to any or all rooms. Program sources may be built into console.



Classroom Change Signal System may be incorporated into the Bogen sound system, eliminating wiring and expense of "gong" system.



Schoolwide Distribution Of Special Events taking place in auditorium, gymnasium or a classroom. Many schools find this feature invaluable.

Look at all the things a Bogen Sound System can do in your school



With a push of a button you achieve the goal of the modern educator: one-room-schoolhouse intimacy in a building with hundreds of pupils, a personal relationship with youngsters you might otherwise never know.

Bogen consoles give you all the functional features recommended by the U.S. Office of Education. And, as you can see on the facing page, Bogen "modular design" makes it possible for you to start out

with just the basic equipment your budget can afford today, and then add functions according to your future needs and budget.

Shown above is a Bogen Series "3" three channel console. The Bogen School Sound Systems are more fully described in Sweets Catalog Service or you can write to the address above for our 16 page catalog and the name of your nearest Bogen Sound Specialist.

DAVID BOGEN COMPANY

Start with
a Bogen
Series "1"
single
channel console



The economical console shown has a built-in FM-AM radio tuner, and slide-out record player. Either radio, recorded or speech programs may be broadcast to any or all of 20 classrooms. The Series "1" is an ideal "starter" system.

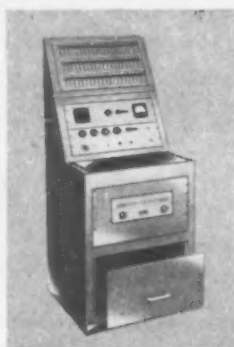
Rooms added
to your school?
Add new
selector
switches



This is the same Series "1" console shown at the left, with the addition of a "top hat" of new selector switches. In this case 90 have been added, but Bogen's Custom Division can supply rows of switches to meet your needs exactly.

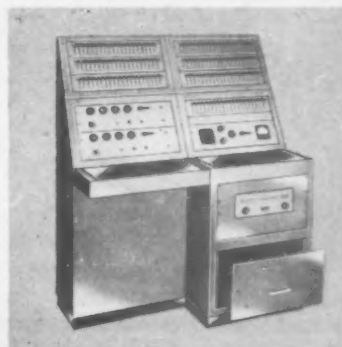
HOW BOGEN "MODULAR DESIGN" ENABLES ANY SCHOOL BUDGET TO INCLUDE A SOUND SYSTEM

Add
2-way
intercom
to your
Series "1"
system



By simply adding an intercom panel to your console, you are now in a position to have 2-way conversations with any teacher in the school. This is an excellent way to give staff members a feeling of working together as a team.

Add extra
channels
for simultaneous
broadcast
and
intercom



With a minimum of expense your Series "1" console may be converted to a Bogen Series "2" (two simultaneous channels) or Series "3" (three channels) console. Now you can distribute one or two additional programs to other rooms without interrupting your first program.

OTHER SCHOOL SOUND EQUIPMENT BY BOGEN



TABLE MODEL "TM" SERIES

Play radio, records or maintain 2-way intercommunication with up to 40 rooms with this economical single-channel table top series. Radio and 3-speed phono are built in.

ECONOMY "SA" SERIES

Control unit with built-in amplifier for announcement distribution, 2-way intercom, radio, phono or tape broadcasts. Up to 40 selector switches. Plug in your own radio, phono or tape equipment.



TRANSCRIPTION PLAYERS

Bogen, world's largest manufacturer of sound systems, offers you a wide range of transcription players ideal for school use. Write for literature describing the many available models.

NO MATTER HOW MUCH MORE YOU MIGHT SPEND YOU CANNOT BUY A MORE DEPENDABLE SOUND SYSTEM THAN A BOGEN

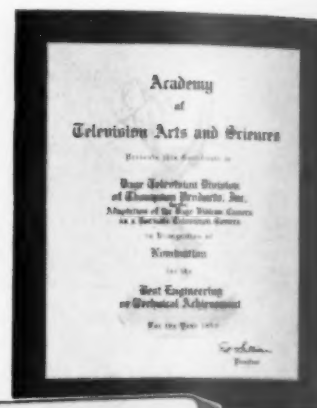
DAGE TELEVISION DIVISION

Thompson Products, Inc.

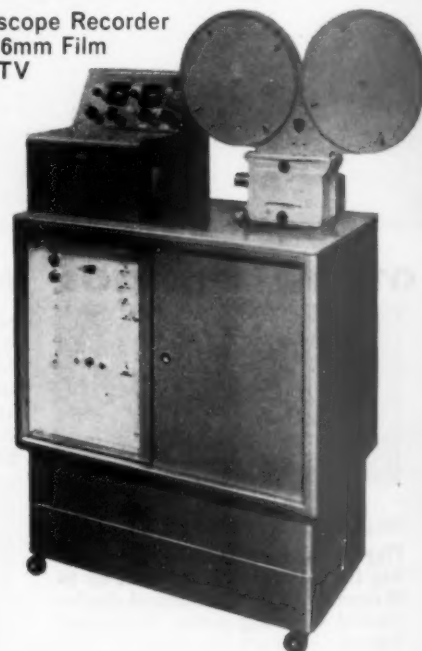
General Offices of Dage Television: West 10th Street, Michigan City, Indiana

The newest and finest
TV systems for education
are pioneered by **DAGE**

Look at this array of television cameras! There's one for
nearly every specific need in schools and universities.



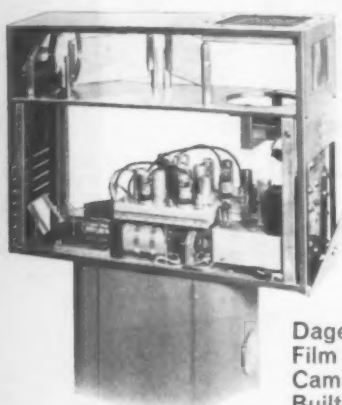
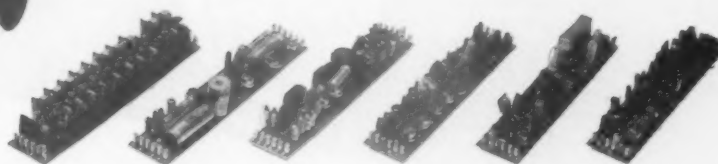
Dage Kinescope Recorder
to Create 16mm Film
Record of TV
Program



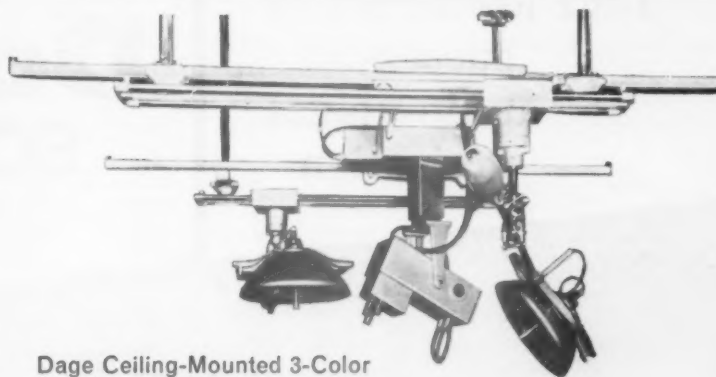
DAGE TELEVISION DIVISION



Transistorized—World's smallest
completely self-contained
automatic broadcast TV camera



Dage 3-Color
Film Pickup
Camera with
Built-in
Multiplexer



Dage Ceiling-Mounted 3-Color
Surgical Camera



Dage Model 103 "Junior Pro" Mobile
Studio Camera System


Dage Remotely
Controlled Pan and
Tilt Camera System



It pays to be farsighted with Dage!

DA-LITE SCREEN COMPANY

Dept. W, Warsaw, Indiana



Da-Lite Electrol

DA-LITE®

Da-Lite®

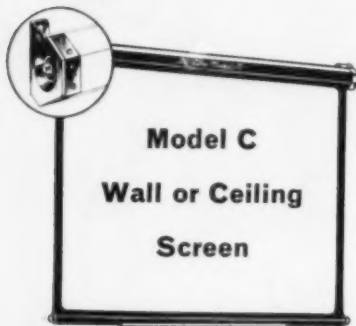
SCREENS

Your assurance of
successful
audio-visual
projection

Da-Lite WONDER-LITE

Newest screen fabric developed through Da-Lite research offers widest possible viewing angle without picture distortion or eye fatigue. Greater brilliance, sharper contrast and fine definition . . . performs extremely well in undarkened room. Of heavy-duty vinyl.

Tough, will not scratch . . . has washable surface. In 40" x 40" and 50" x 50" sizes mounted in Da-Lite famous "push-button tripod" for easy set-up!



Da-Lite MODEL C

Long recognition as finest spring-roller wall or ceiling hanging screen. White Magic Glass Bead or Mat White fabric. Use with floor stand as a portable floor model. Sizes from 6' x 8' through 12' x 12' at competitive prices.

Da-Lite ELECTROL—Completely automatic electrically operated screen engineered for smooth, quiet, dependable, long life service in auditorium or large lecture room. Can be controlled from any location. Famous Da-Lite "White-Magic Glass Bead" or Mat White surface. Flame and mildew resistant fabric available. Standard 110 AC circuit. All sizes from 8' x 8' to 20' x 20'.

Your franchised Da-Lite Audio-Visual dealer will help solve your specific screen problem!

The name Da-Lite has stood for unquestioned quality for half a century! By constantly developing new projection screens and features to meet the exacting demands of visual education, Da-Lite has maintained a reputation for superior reproduction and performance. The Da-Lite line of audio-visual screens includes a model to fit every need . . . in a wide price range.

Write today for detailed information and the name of the franchised dealer nearest you.

Da-Lite®

DA-LITE SCREEN COMPANY

Dept. W, Warsaw, Indiana

LIGHTMASTER SCREEN CO.

Building 57, 12270 Montague Street
Pacoima, Calif.



MORE SCHOOLS ARE INSTALLING LIGHTMASTER PROJECTION SCREENS

BECAUSE . . .

ONLY LIGHTMASTER HAS ALL THESE FEATURES!

WIDEST VISION CLASSROOM SCREEN Lightmaster's 160° wide angle viewing without distortion means every seat in the classroom is a good seat. Better for teachers and viewers with everyone in his own seat.

UNMATCHED BRILLIANCE Lightmaster is unequalled for reflected brilliance in normal light or darkened rooms. Light control curtains and blinds are unnecessary in most installations. Every room can be a projection room.

VIEWERS CAN TAKE NOTES . . . USE CORRELATED STUDY MATERIALS Lightmaster's unique ability to show pictures in normal room lighting makes this possible. Teacher control is another important feature of Lightmaster projection screens.

DARK ROOM EYE STRAIN ELIMINATED Lightmaster equipped schools show visual study periods are more effective with lighted viewing. Viewers no longer must go from darkened visual study rooms into broad daylight with the accompanying discomforts.

FULL WINDOW VENTILATION All the windows can be opened making students and teachers more comfortable.

LOWEST COST Lightmaster screens require no expensive light control systems or special rooms for viewing. There are no beads to fall off or paint to wear—only a beautiful non-tarnish metal surface with hundreds of tiny ribs to reflect the light.

LIGHTMASTER SCREENS LEND THEMSELVES TO PERMANENT INSTALLATIONS



When designing or planning a new school . . . consult with your architect regarding the latest trend in audio-visual installations. LIGHTMASTER SCREENS can be built into the wall on a permanent installation basis for years of maintenance-free brilliant usage.

"Eleven classrooms in the new high school at Stevenson, Washington are equipped with Lightmaster screens as permanent installations. After five months of use I find them to be very satisfactory. The Lightmaster gives a clear, sharp image from all places in the room."*

The Lightmaster wide-angle projection screen shown in the illustration is a highly reflective sinusoidal metal screen of sturdy construction, assuring long life against deterioration. Every screen is encased in an attractive frame, with a removable cover for protection against damage when not in use. Brackets for easy positioning in any room are standard equipment. All models are of light weight and easily transported from room to room.

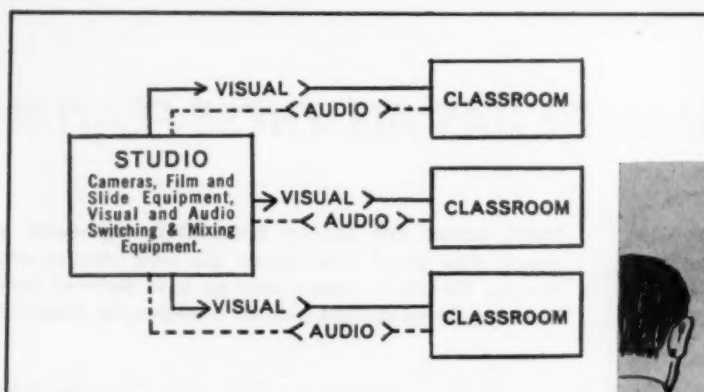
* Name of Supt. upon request.

SARKES TARZIAN, INC.

Bloomington, Indiana

Designers and manufacturers of broadcast and closed circuit Television Equipment since '49

COMPLETE EQUIPMENT for EDUCATIONAL TV



Sarkes Tarzian, Inc. is a pioneer in the field of ETV systems, and today is one of the few manufacturers offering a complete line of broadcast and closed circuit television equipment.

Always, Tarzian has stressed simplicity and reliability of operation . . . ease of maintenance . . . low initial cost and low operating cost with no sacrifice in quality of materials, construction, or in performance.

Educational Television is providing clearer, more accurate presentations before large class groups, and is recognized as a possible solution to the overcrowded classroom conditions.

ETV is proving to be applicable in many fields of study and group instruction. Some schools are using Tarzian equipment for training students in commercial television. Some have outlets for their programs through local, commercial stations. But, for the most part, their programs are never aired. Addition of a low power transmitter—operating on one of the unused educational channels—could provide trainees more complete training, and at the same time, enable the viewing public to benefit from the wealth of enlightenment which can be brought before the camera.

AMERICAN SCHOOL AND UNIVERSITY—1958-59



Large universities, as well as small, independent colleges and private schools are users of miscellaneous Tarzian ETV equipment such as camera chains and film chains. And, typical of the schools where complete package installations have been made are: Miami University, Fisk University, University of Florida, University of Dakota and Toledo University.

Typical of the Tarzian line are these pieces of equipment shown on the opposite page.

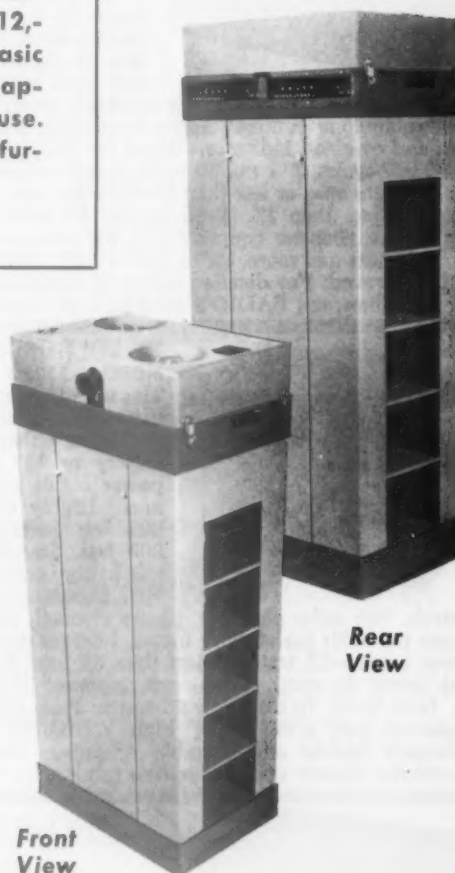
SARKES TARZIAN, INC.

Tarzian TV
CONSOLE ARRANGEMENTTarzian
TV CAMERA

An adequate EDUCATIONAL TV SYSTEM — engineered to individual requirements — is available from Sarkes Tarzian, Inc. for as little as \$12,000. This includes ALL basic equipment, and it is approved for government use. Complete technical data furnished upon request.



Tarzian KINESCOPE RECORDER

Front
ViewRear
ViewTarzian TV PROJECTOR
100 Slide Automatic

NEWCOMB AUDIO PRODUCTS CO.

6824 Lexington Avenue, Hollywood 38, California

Manufacturer of classroom record players and radios, public address amplifiers, portable systems combining record and transcription players with public address, and high fidelity components.

NEWCOMB

DEPENDABLE, SAFE, DURABLE...

These three words best describe the features that result from Newcomb's designing sound equipment specifically for school and classroom use. Audio quality is the very best. Newcomb record players and amplifiers have proven their dependability by delivering years of trouble-free service in leading school systems throughout the country. They are safe; ruggedly built of the finest quality materials. Most are transformer powered for best performance, maximum safety. With easy-to-service construction and quickly available American-made parts, it is a simple matter for any service man to put the equipment in like-new condition. Shown on these pages are but a few, representative Newcomb models. Write for complete catalog and ask to be put on mailing list to receive data on exciting new models.

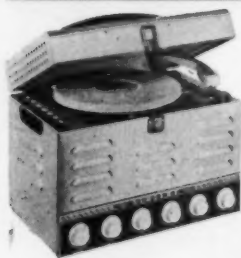


PUBLIC ADDRESS AMPLIFIER

MODEL KX-50

The finest public address amplifier made for school auditorium use—without equal at any price—is the Newcomb KX-50. Maximum control settings may be made by instructor, and control cover locked. Student then operates all channels by remote control from seat in auditorium. 6

inputs—5 mike; 1 phono, either magnetic or crystal. Separate bass and treble tone controls, audio bandwidth selectors, double eye gain and overload indicator. Wired for plug-in input transformers. 20-20,000 cycles ± 1 db. 50 watts power output design center rating 60 watts max. at less than 3% distortion any output tap. 90% of rating at less than 1%. Peak power: 80 watts design center, 90 watts, max. Booster coupling jack for connecting K50B Boosters for 100 watts and more. 9" x 17" x 14". WEIGHT: 46 pounds. U/L Approved. For detailed listing of complete line of Newcomb PA Amplifiers, see RADIO'S MASTER or write.



12 VOLT MOBILE AMPLIFIER

MODEL E-253M3

This ultra modern 25 watt unit, with turntable or without, may be operated from either a 12 volt storage battery or 117 volt 60 cycle AC power outlet with equal effectiveness. Highly efficient—consumes 20% less battery current, weighs 30% less. Standby switch reduces idle battery consumption more than 70%. Separate bass and treble tone

controls, two mike channels, phono channel, tape input. 3 speed phono top with turret type motor, heat-resistant ceramic pickup. Power output—25 watts at less than 3% total harmonic distortion, peak power 40 watts. Frequency response: 30-20,000 cycles ± 2 db. Hum level: 70 db below 25 watts. Hum balance control. U/L Approved. 14" x 9" x 10" high. WEIGHT: 24 pounds. Other Newcomb Mobile and Portable Amplifiers are listed in Radio-Electronics Master and in our free catalog.



HIGH FIDELITY COMPONENTS FOR THE MUSIC ROOM



Newcomb High Fidelity Components are characterized by their excellent construction, flexibility, stability, extremely low distortion and hum. The Compact 1020 is

a combination preamplifier, control unit, and 20 watt power amplifier. The Compact 200 Tuner shown here is an extraordinarily sensitive AM-FM radio tuner. These are but two of the many first quality Newcomb High Fidelity Components.

COMBINATION TRANSCRIPTION PLAYER / PA SYSTEMS FOR INSTRUCTION & RECREATION



MODEL TR-25AM

25-watt, two-speaker, 3-speed player and p.a. system for all records up to 17". G. E. variable reluctance pickup with dual jewelled needles. Scratch suppressor. New Speed-O-Scope speed indicator and patented Newcomb variable speed motor. Two mike inputs with separate tone and volume controls independent of record player. "Floating sound" mounting.

Two heavy-duty 12-inch speakers, each with 25-foot cable. Newcomb Phono-Monitor jack provides voice-free music for connection to an external amplifier and speaker (M-5). Frequency response ± 2 db 40 to 15,000 cycles. U/L Approved. Packs in two cases. Main case 16" x 16" x 8", weight 36 pounds. Dual speaker case 14" x 15" x 11", weight 19 pounds. LIST: \$382.50, INDUSTRIAL NET: \$229.50.



MODEL TR-16AM

Versatile single speaker transcription player and p.a. system combined, packs into one case. Plays records to 17" at all three speeds. Variable speed control with Newcomb Speed-O-Scope for easy setting to exact speed setting or slowing to speed required by instructor,

with no wows. Heavy 10-inch turntable. G.E. variable reluctance pickup with twist-type dual needles in a 12" cast metal tone arm and needle pressure adjustment. Scratch suppressor. Individual bass and treble controls. Microphone input unaffected by record bass control. Large 12" Alnico 5 PM speaker built into removable lid with 25-foot cable. Exclusive Newcomb "floating sound". Fabricoid covered case. 10 watt 100% AC operated amplifier. WEIGHT: 33 pounds. Size 14" x 15" x 11". LIST: \$257.50, INDUSTRIAL NET: \$154.50.

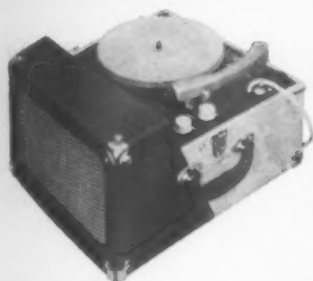
MODEL TR-16C

Similar to the TR-16AM (above) except without the scratch suppressor switch and the pickup cartridge is a heat and humidity resistant ceramic type encased in a sturdy metal arm. LIST: \$233.25, INDUSTRIAL NET: \$139.95

NEWCOMB AUDIO PRODUCTS CO.

NEWCOMB

classroom record players & radios

THE *Ballerina*

MODEL C-12V

High fidelity portable phonograph, plays 33- $\frac{1}{3}$, 45, 78 RPM records, with Newcomb variable speed control to permit slowing any record to the exact speed desired for dance instruction. Big 11-inch extended range

speaker. Heat and humidity resistant ceramic pick-up cartridge in cast metal arm with dual needles, protective drop pad and screw type hold down clamp. Exclusive Newcomb "floating sound" vibration absorbing feet protect against needle skipping. Compensated volume control, wide range tone control. 5-watt transformer powered inverse feedback circuit amplifier. Sturdy $\frac{3}{4}$ " plywood carrying case covered with washable maroon and grey fabricoid. U/L Approved. WEIGHT: 21 pounds. SIZE: 16" x 14 $\frac{1}{2}$ " x 8". LIST: \$126.75, INDUSTRIAL NET: \$94.50 (plus excise tax).

THE *Coloratura*

MODEL C-12

3-speed fidelity phonograph the same as above but without variable speed feature. Plays all 33- $\frac{1}{3}$, 45, and 78 RPM records with lifelike tone. Big 11-inch speaker and other features as listed above. LIST: \$104.50, INDUSTRIAL NET: \$74.50 (plus excise tax).

COMBINATION TRANSCRIPTION PLAYER / P.A. SYSTEM WITH VARIABLE SPEED (Model R-16CV)



A complete portable system for playing transcriptions or records up to 17 $\frac{1}{2}$ ", with microphone input and separate volume control to permit mixing microphone with recorded music. Dependable continuously variable control of speed at all three settings (33- $\frac{1}{3}$, 45 and 78 RPM). Full starting torque at any speed. Sturdy 12" cast metal transcription type pick-up arm with adjust-

able needle pressure. Heat and humidity resistant ceramic cartridge, with jewelled, easy-to-replace needles. Protective pad for needle drop. Screw-type hold-down clamp for arm in transit. Newcomb "floating sound" vibration absorbing feet protect against needle skipping. Balanced-design 5-watt inverse-feedback-controlled, transformer-powered amplifier, humidity protected output transformer. Removable 10" speaker has a 25-foot cable for use at a distance from amplifier. Compensated record volume control and wide range tone control. Fabricoid covered $\frac{3}{4}$ " plywood carrying case with metal corners, kickproof metal speaker grill. U/L Approved. WEIGHT: 22 pounds. SIZE: 14" x 15" x 8". LIST: \$149.50, INDUSTRIAL NET: \$112.50.

NEWCOMB . . . first **N** in sound . . . since 1937

AMERICAN SCHOOL AND UNIVERSITY—1958-59



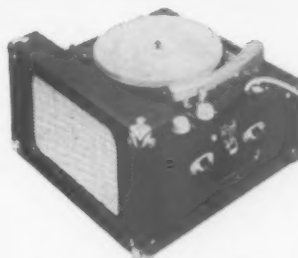
the "Pacemaker"

MODEL P-12C

The lowest price ever for a Newcomb portable phonograph. Plays 33- $\frac{1}{3}$, 45 and 78 RPM records to 12".

FEATURES: Big 7" oval speaker, inverse feedback controlled beam powered amplifier, humidity protected

output transformer, compensated volume control, wide range tone control, pilot light to indicate when on. Heat and humidity resistant ceramic cartridge encased in a sturdy cast metal arm with positive screw-type hold down clamp. Dual sapphire needle points give long life to records. Rubber crash pad. Maroon and grey fabricoid cover over $\frac{3}{4}$ " plywood case. U/L Approved. WEIGHT: 16 pounds. SIZE: 14 $\frac{1}{2}$ " x 14 $\frac{1}{2}$ " x 8". LIST: \$74.95, INDUSTRIAL NET: \$53.95 (plus excise tax).



the "Soloist"

MODEL R-12

High fidelity portable three speed phonograph with big 9-inch extended range speaker and 5-watt amplifier. Newcomb "floating sound" vibration absorbing feet protect against skipping.

Turnover-type, two-needle, wide-range crystal pick-up. Cast metal pick-up arm with positive screw-type hold down clamp. Fine transformer powered 5-watt inverse feedback controlled amplifier. Wide-range tone control. Compensated volume control. Sturdy $\frac{3}{4}$ " plywood case covered with washable fabricoid. U/L Approved. WEIGHT: 20 pounds. SIZE: 14 $\frac{1}{2}$ " x 14 $\frac{1}{2}$ " x 8". LIST: \$89.95, INDUSTRIAL NET: \$64.50 (plus excise tax).

MODEL R-12C

A ceramic pick-up version of the famous R-12 (above) for use in areas of exceptionally high heat and humidity. LIST: \$94.50, INDUSTRIAL NET: \$67.50 (plus excise tax).



SCHOOL AM RADIO

MODEL B-100

Rugged long-range AM radio for schools, etc.

Big 6-inch extended range speaker. Transformer powered AC construction. Extreme sensitivity designed for fringe areas. Amplifier utilizes inverse feedback circuit and beam powered output. Output jack for use in supplying AM radio to public address system. Twist proof stringless full-vision dial. Unbreakable plexiglass dial cover. Heavy metal grill protects speaker. Covered in two-tone fabricoid material. WEIGHT: 13 $\frac{1}{2}$ pounds. SIZE: 7" x 14 $\frac{1}{2}$ " x 8". LIST: \$85.95, INDUSTRIAL NET: \$64.50 (plus excise tax).

All prices and specifications subject to change without notice

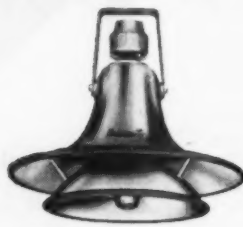
UNIVERSITY LOUDSPEAKERS, INC.

80 So. Kensico Ave., White Plains, N. Y.

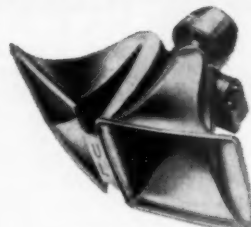
THESE ARE JUST A FEW OF UNIVERSITY'S MANY



REFLEX TRUMPETS



RADIAL PROJECTORS



WIDE-ANGLE HORNS

THEATRE, INSTITUTIONAL AND HIGH FIDELITY



WIDE-RANGE SPEAKERS

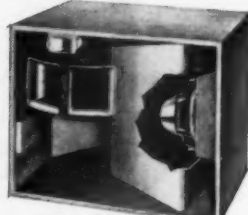
SUPER-POWER SPEAKERS
TO THOUSANDS OF WATTS

OUTDOOR MUSICASTING

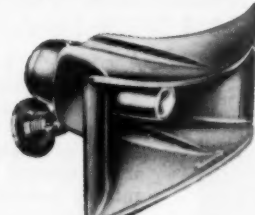
SPEAKERS AND COMPONENTS TO MEET EVERY NEED



EXPLOSION-PROOF SPEAKERS



MODULE THEATRE SYSTEMS



PAGING, TALK-BACK SPEAKERS

IN SOUND REINFORCEMENT AND PUBLIC ADDRESS

People have come to expect the highest standard of quality in a product bearing the University label.

This kind of public acceptance is something that University has consistently worked to achieve. First—by making available a complete variety of the finest loudspeakers and components for use in classrooms, auditoriums, gymnasiums, cafeterias, libraries, etc. Second—by building the kind of quality into them that assures years of efficient trouble-free service.

Listen and learn why "University is best" for high fidelity reproduction of music and speech.

For latest Product Catalog containing full technical data, write Desk W-19, University Loudspeakers, Inc., 80 So. Kensico Ave., White Plains, N. Y.

JUST PUBLISHED! The all-new University **TECHNILOG**. 64-page sound system planning and reference manual. Covers: how to select proper drivers, directional vs. wide-angle trumpets, high fidelity in P.A., reverberation, overload protection, and much more. Includes specs, charts, diagrams, latest product information and exclusive Sound System Design Chart, effective guide for planning efficient installations. Price: \$1.00

LISTEN... *University sounds better*

D-2/Ad

add to the
color, life and
beauty of theaters,
school and college
auditoriums,
public buildings and
other institutions



FRANK ADAM
STAGE LIGHTING
CONTROL SYSTEMS



MODERN STAGE LIGHTING CONTROL

Frank Adam Electric Company is one of the country's oldest and foremost manufacturers of Stage Lighting Control Boards for schools, colleges, theaters, municipal auditoriums, and other institutions.

For more than 65 years this company has been producing lighting controls that have added substantially to the color, beauty, usefulness and enjoyment of all types of auditoriums - - small or large - - modern

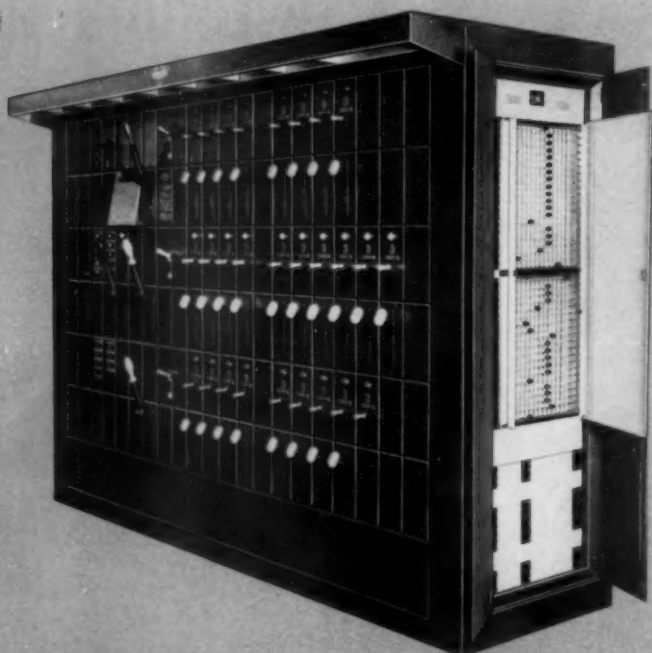
equipment that embodies all the latest features in design and construction.

Four basic types of stage control boards are manufactured by Frank Adam - - manual control, modified pre-set remote control, multiple pre-set switching and dimming remote control, and mobile color lighting control. Dimmer Boards are of the auto-transformer and reactor types.



MANUAL DIMMING STAGEBOARD

Completely self-contained, this free-standing dimmer control board is ideal for small auditoriums. Dimmers are of auto-transformer type with each dimmer controlling all circuits of a color group. Circuit Breakers used in dimmer control provide overload protection and a means for disconnecting dimmers. Branch circuit breakers on each dimmer control may be used for circuit switching. Boards can be furnished with or without doors and with interlocking shaft for master control. Front-connected and completely accessible from the front, these boards can be placed against the wall, thereby requiring less space.



MANUAL SWITCHING AND DIMMING

Self-contained and free-standing. Dimmers are of the manual auto-transformer type and are readily accessible from the rear. Doors can be provided over the front and rear of board. Manual switching may be direct or set-up on group master control. Group master switches may be further set-up for stage master switching. Switches are of the silent operating type. Interlocking dimmers on group master shafts, which can be vertically interlocked for grand master control.

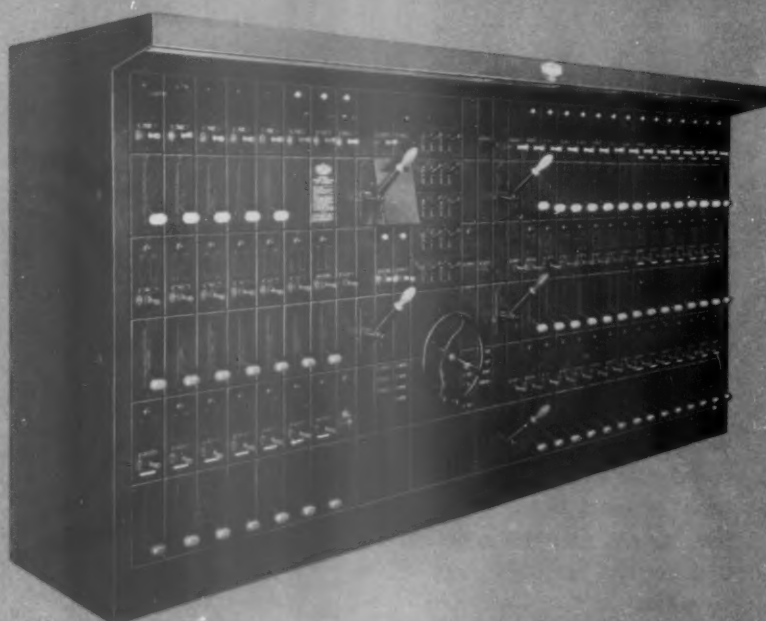
for theaters, schools and other auditoriums

Outstanding features of lighting control boards

- Unit construction of switching and dimming control units facilitating future expansion.
- Formed sheet steel construction.
- All switching and dimming components mounted on switchboard framing independent of cover plates.
- Dead front and rear — no live parts exposed.
- All internal wiring made at factory, terminating on conveniently located terminal strips.
- All control boards tailored to meet specific requirements.
- Specially designed dimmer operating lever handles, which indicate at a glance whether operating handle is in position for individual operation of dimmer or interlocked for group or master control.
- Specially designed slot closers, completely enclosing slot in dimmer control plate, through which dimmer handles operate.

REMOTE SWITCHING MANUAL DIMMING

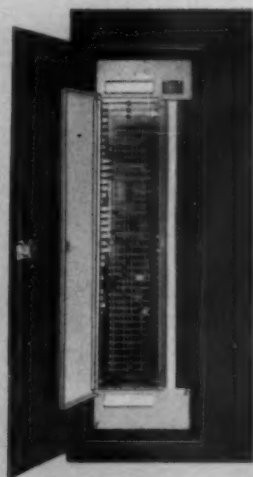
Complete system includes stageboard and a remote board off stage. System is available with modified remote switching or full remote switching; the latter being available with multi-scene pre-selective switching. Also available with interlocking dimmers on a group master shaft which can be vertically interlocked for grand master control. Color master levers can be further interlocked on a slow motion wheel drive for operation of a large group of controls. Also for cross control, which means that certain groups of dimmers may be raised (brightened) simultaneously while other groups are lowered (dimmed). Dimmers are easily accessible from the rear of the board.



REMOTE SWITCHING and REMOTE DIMMING

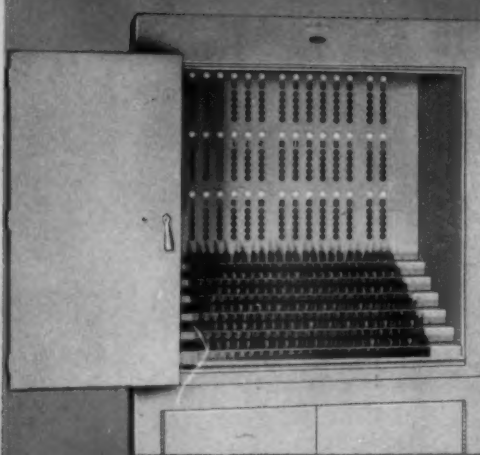
Illustration shows a console pilot board for a remote switching and dimming system on which magnetic amplifier type dimmers were used. However, motor driven or auto-transformer types are also available. Advantages of system include pre-set dimming and switching for an unlimited number of scenes. Also permits proportional dimming, scene to scene fading at any desired speed and super-imposing of one scene on another. Miniature low voltage intensity selectors provide accurate intensity control plus smooth operation. Because they are miniature, the pilot board requires a minimum of space. Also enables location of dimming equipment off stage, and if desired, can be divided and located at two separate places. Dimming control may be extended to one or more stations or an additional pilot board.

CROSS CONNECTION PANELS



SLIDING PLUG AND BAR TYPE

Consist of horizontal bus bars connected to the branch circuits through a circuit breaker providing overload protection and switching control along with vertical bars connected to the dimmer control unit on switchboard or to an undimmed control unit. Slider plugs on the horizontal bars are furnished with insulated knobs which provide means for tightening connection to vertical bars permitting group control of branch circuits. A slotted lucite cover prevents accidental contact with live parts. Engraved nameplates identify the bus connections.



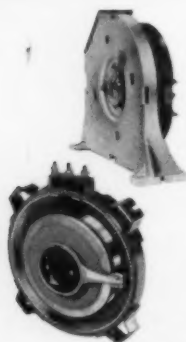
PLUG AND JACK TYPE

Consist of retractable cords and plugs for branch circuit connections and plugin jacks for dimmed or undimmed control units. The cords and plugs are connected to the branch circuits through circuit breakers, providing overload protection and switching control. The jacks are connected in groups of two or more to the dimmed or undimmed control units. Two or more cords and plugs can be plugged onto the control unit jacks for group control of branch circuits. Lights can be provided to indicate when plugin jacks are energized. Engraved nameplates identify dimmer and load circuits.



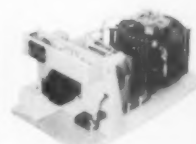
ROTARY SELECTOR SWITCH TYPE

Cross connecting panels consist of heavy duty rotary selector switches, of the load break type operable under load. These rotary selector switches can be furnished to provide from 2 to 12 positions. Each branch circuit is provided with its individual rotary selector switch connected through a circuit breaker to provide overload protection and switching control. The selector position contacts are connected to the dimmed or undimmed control unit. Engraved nameplates identify the positions on the selector switches and the branch circuit connections.



AUTO-TRANSFORMER DIMMER

This is the most popular type. Consists of an insulated copper conductor wound around a circular core of laminated transformer iron. Sliding contact is made with the winding to permit contact with each turn of the winding, resulting in flickerless dimming. Any load from a few watts to the full rated capacity of the dimmer can be controlled. Loads can be added to or taken from dimmers without affecting dimming characteristics. These dimmers are available in capacities of 2500, 6000, 6600, and 8000 watts and are adaptable for manual or motor-driven control.



MAGNETIC AMPLIFIER DIMMER

This dimmer consists of static core and coil transformers and reactors; dry disc rectifiers and resistors. There are no electronic tubes, no relays or moving parts. Speed of response is practically instantaneous. The dimmer is controlled by small indicating controllers. The load range for incandescent lamp loads is 30-1 ratio.

FRANK ADAM



FRANK ADAM ELECTRIC COMPANY

BOX 357, MAIN P. O. • ST. LOUIS 3, MO.

makers of

*busduct • panelboards • switchboards • service equipment
safety switches • load centers • Quikheter*

stage lighting

featuring
THE DAVIS DIMMER



lighting artistry at your finger tips

DAVIS LIGHTING CONTROLS

consolette • panelette • wall twin

wall master triplet • console master

ARIELITE LIGHTING EQUIPMENT

ARIEL DAVIS MANUFACTURING COMPANY
Salt Lake City, Utah

ARIEL DAVIS MANUFACTURING COMPANY

Ariel Davis, president and founder of the Ariel Davis Manufacturing Company has been a modern pioneer of the American system of stage lighting by introducing to the American stage—professional, educational and amateur—new easy-to-operate stage lighting equipment.

The company was organized in 1947 as a partnership, was incorporated in 1950, and moved into its present plant in Salt Lake City in 1953. Stage lighting control equipment and stage lighting fixtures, designed and manufactured by Ariel Davis Manufacturing Company, are sold throughout the United States and also in several foreign countries.

The new concept of stage lighting control by Ariel Davis, which places primary emphasis on the flexibility of the control, is featured in Davis lighting equipment installed in theatres, auditoriums, churches, restaurants and television studios. Ariel Davis has made dynamic, versatile stage lighting available not only to the great theatres of Broadway, but more important, in the immense post-war new school building market, to the thousands of schools and amateur groups where the theatre is closest to the people.

the history of stage lighting

Stage lighting is a necessary medium of the theatre. In the sixteenth century, when theatres acquired roofs, colored lights were created by placing bottles of colored wine in front of oil lamps. By the middle of the seventeenth century, reflectors and colored lamp chimneys had been added.

Later, gas lights made it possible to change stage lighting intensity by control of the fuel supply.

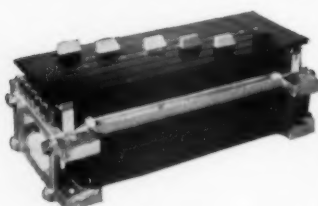
When Edison developed the incandescent lamp, the pioneering Paris Opera experimented with it. During this period a hydrogen flame against a block of lime, enclosed in a lens housing, became known as a limelight—hence came the phrase "In the Limelight".

The European system developed, using fixed strips of footlighted border lights, with an occasional spotlight furnished by the limelight and later the arc light.

The productions of the famous American director David Belasco and his lighting specialist Louis Hartmann, parted from the European system. The baby spot, developed by them, literally pulled lighting equipment to the front of the stage. Their idea of lighting became known as the American system, which makes lighting the servant of the show rather than having the show at the mercy of stereotyped lighting.

DAVIS EQUIPMENT COMPONENTS

Multi-Dimmer—Model 800



multi-dimmer

A Tested and Proven Davis Model with MORE CAPACITY For Its Size Than Other Autotransformer Dimmers on the Market.

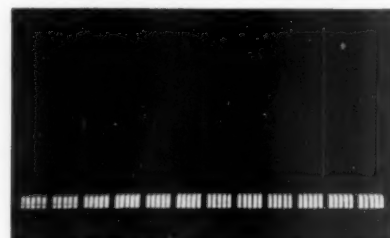
- The Davis "800" has more capacity to meet all requirements in one compact unit.
- Versatile Davis Finger-Master sliders give velvet smooth control and flickerless dimming.
- Davis heat dissipation features maintain cooler operating temperatures at all loads. No wasted power as in resistance type dimmers.
- The unique Davis coil features a silverplated commutator coil surface for linear brush travel.
- Six separate loads can be controlled independently, giving great flexibility.
- The Davis slider system is simply constructed for easy operation. Professional lighting effects can be achieved by young or inexperienced operators.
- Construction features, including "Dead Front" design, insure absolute safety at all times.
- Every part of the Davis "800" is constructed of heavy-duty materials for long "continuous-use" operation.

The Davis Dimmer, Model "800" features "finger-master" control with six coded sliders. Each slider is a different color (red, orange, yellow, green, blue, violet) for quick identification. Each dimmer can be operated individually, or collectively in any combination. Thus, mastering can be accomplished with one hand. The position of the sliders determines voltage and brightness of the lights being controlled.

RATING: The total rating of the model "800" dimmer depends upon the size of the main breaker feeding the dimmer. For example:

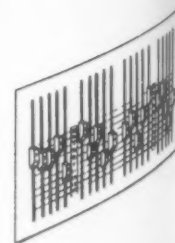
- 50 Amp main breaker, 6000 watts total dimmer rating.
- 60 Amp main breaker, 7,200 watts total dimmer rating.
- 100 Amp main breaker, 12,000 watts total dimmer rating.
- 125 Amp main breaker, 15,000 watts total dimmer rating.
- Each brush on the Model "800" dimmer has an individual rating of 20 amps, 2,400 watts. For operation on 120 volt, 60 cycle circuits.

Quick-Connect Circuit Selector



quick-connect panel

Brings New Ease of Operation to Davis Dimmer Control Boards.



- Split-second connection of any stage circuit to any dimmer.
- Ideal for TV studios where time is so important.
- Compact accessibility to all lighting circuits — finger-tip control.
- "Kid-Proof" designed for safe student operation.
- Lighting layout visible at a glance.
- Clearance of all circuits in one sweep. No plugs, jacks, cords, switches.

- Flush or wall mounting if space is a factor.
- Engineering research, quality materials and finest workmanship.

The Davis Quick-Connect Circuit Selector employs the genius and efficiency of exclusive Davis control sliders to bring new ease of operation and flexibility to circuit selection.

Now you can have, in one lighting installation, the Davis "finger-tip" dimming control and Davis "finger-tip" circuit selection for the utmost in stage, theatre, and television lighting.

The Davis Quick-Connect Panel consists of three main parts: the stage circuit slider assembly; the stage circuit bus; the dimmer bus. Constructed of made between the stage circuits and the dimmers by means of a heavy-duty spring-loaded brass capsule. This unit includes a flexible wire shield and solid silver contacts.

RATING: Each bus has a maximum capacity of 50 amp; each slider has a maximum capacity of 20 amp; for operation on 120 volt, 60 cycle circuits.

the new concept in light control

The new concept in lighting control today for theatres, auditoriums, churches, restaurants, and television studios places primary emphasis on flexibility of control.

All of the wanted features in lighting control—flexibility, compactness, convenience and economy—are embodied in the Davis Standard Lighting Control Boards. That's why architects and electrical engineers, high school and college drama directors, and managers of traveling theatre companies—the people who know most about lighting control—are so enthusiastic about Davis lighting equipment.

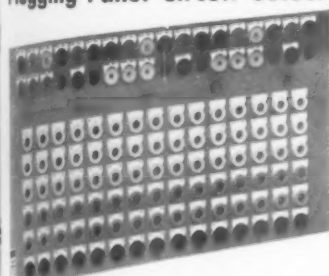
The heart of all Davis Lighting Control Boards is the famous Davis Multi-Dimmer with straight-line slider controls. The sliders on the Multi-Dimmer move in a straight line over the face of the control board. One operator can command as many as 42 individual dimming circuits in a Davis Control Board slightly wider than an average desk. A graduated scale on the top surface of the board makes it easy to re-set to a given lighting effect at any time.

The sliders may be pre-set at various intensities to create the effect wished on the stage. The Master Dimmer—one single control—may be used to increase or decrease intensity of light in the same proportion as originally set throughout all circuits under control at the time.

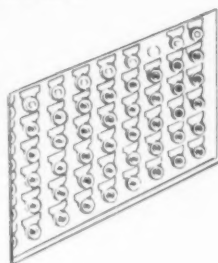
Unlike switchboards where the circuits are permanently connected to the dimming control, Davis Standard Lighting Control Boards, with the Quick-Connect feature or the Plugging Panel, allow the operator to tailor his lighting to an entire play, one act, or a single scene. Any dimmer is easily and quickly available to any circuit. Then, too, house lights may be controlled when needed without additional equipment reserved especially for them.

Only the best and most durable materials and workmanship go into Davis products. You receive a full-year written guarantee against faulty material or workmanship. Expert service at the factory is assured for the life of the equipment.

Plugging Panel Circuit Selector



plugging panel
 Most Economical Circuit Selector of Davis Dimmer Control Boards



- The Davis Plugging Panel provides a convenient means for connecting any lighting load to any dimmer circuit.
- Constant voltage receptacles for load circuits that are not dimmed.
- Top-in patch cords permit several lighting circuits to be connected to one dimmer.
- Load receptacles may be color coded in colors for easy circuit identification.

- "Dead Front" construction of electrically live receptacles insures absolute safety.
- Orderly layout of receptacles to relative position of lights on stage for easy circuit selection.
- Simple construction, quality materials, for long trouble-free operation.

The Davis Plugging Panel is an economical circuit selector providing flexible control for modern stage lighting. The panel circuit arrangement can be tailored to the needs of the particular production, controlling any light or group of lights at just the right intensity. This control board requires fewer dimmers than fixed control boards, where several dimmers may be idle because they are permanently connected to a load not in use at the time.

RATING: Each load receptacle has a maximum capacity of 20 amp.; for operation on 120 volt, 60 cycle, circuits.

patch cords



The new Davis patch cord is extra flexible, single conductor, rubber covered cable, with specially designed "double-end" plugs. One end fits into a male receptacle and the other receives a male plug, making it possible to connect groups of lights together to operate from one dimmer slider.

Master Dimmer

- Provides electrical proportional dimming control.
- Increases versatility and flexibility of lighting.
- Makes possible single manual control for easy operation.



The Davis Master Dimmer is used to fade a scene in or out or to increase or decrease the intensity of a lighted scene, keeping the same balanced pre-set lighting proportions of the various slider settings on the Multi-Dimmer. This new system is superior to the old mechanical interlock system of dimming, which inherently loses relative lighting proportions.

Circuit Breaker Sections

- Silent magnetic breakers.
- Unaffected by high ambient temperature.
- Labeled by Underwriters Laboratories, Inc.



Davis dimmer control boards are furnished with magnetic circuit breakers which experience proves are preferable to thermal breakers. These give quiet operation (no disturbing snap), are unaffected by high room temperatures, are instantly re-set when overloaded, and have positive trip indication.



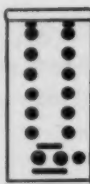

Transfer Switches

- Rotary-type for easy control.
- Quiet operation.
- Increased flexibility and utility of control board.


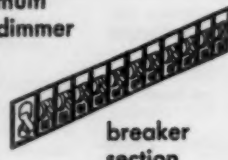


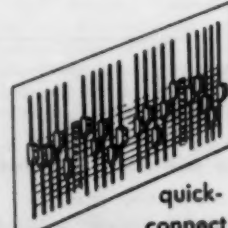
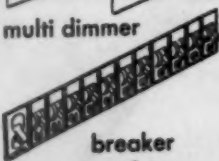
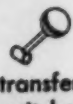
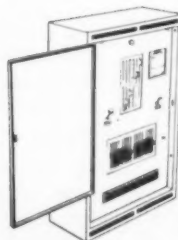


Davis transfer switches will connect the Multi-Dimmer to the Master Dimmer for electrical proportional dimming, or will connect the Multi-Dimmer directly to feeder circuits leaving the Master Dimmer free as an independent control. They can also connect heavy loads, such as house lights, to the Master Dimmer.

DAVIS CONSOLETTA • for portable operation

APPLICATION	EQUIPMENT KEY	DESCRIPTION	GENERAL FEATURES
dual circuit lighting control	 multi dimmer  breaker section  plugging panel at back	 <p>An amazing new portable lighting control with dimmers, switches, circuit breakers and plugging panel all in one compact unit. This low cost versatile Davis Consolette Portable can be used for a stage play, carried to a gymnasium to professionally light a dance, used in small or large auditoriums for concerts and other programs, or can be used outdoors for summer stage presentations. Dimmer control for twelve stage lighting loads and one constant voltage load.</p>	<p>MULTI-DIMMER Six plastic sliders, color-coded for easy identification. Position of sliders determines light intensity. Engraved numerals for easy resetting of any lighting arrangement. Hooded operation lights, bright or dim, are provided.</p> <p>PLUGGING PANEL Contains 12 polarized twist-lock receptacles, two for each slider. Small receptacle opening in the large opening is neutral. Receptacles have same color-coding as sliders and breakers. Lights to be controlled are plugged into receptacles directly or through conversion cords. Convenience outlet is not dimmer controlled.</p> <p>BREAKERS AND SWITCHES Six color-coded 20 amp silent breaker switches protect dimmer circuits. 100 amp and 15 amp silent breaker switches control and protect total dimmer load and constant load, respectively.</p> <p>POWER FEEDER RECEPTACLES Two 110 amp single pin jacks and plugs, polarized for safety.</p> <p>Electrical Specifications: 2400 watts (max.) each dimmer circuit. 12,000 total watts (max. load of main dimmer coil). Power supply; 120V, 60 cy, a.c.</p>

DAVIS PANELETTE • for permanent installation

APPLICATION	EQUIPMENT KEY	DESCRIPTION	GENERAL FEATURES
individual circuit lighting control	 multi dimmer  breaker section	<p>model 71001 A large capacity switchboard compactly assembled in a small unit for maximum economy and efficiency. Handles six individual lighting loads with all of the flexibility offered by the Davis Multi-Dimmer. Designed for easy installation.</p> 	<p>MULTI-DIMMER Six plastic sliders give finger master-dimming control for individual circuits.</p> <p>BUILT-IN BREAKERS The multi-dimmer and load circuits are protected with individual silent magnetic breaker-switches.</p> <p>COLOR-CODE IDENTIFICATION For easy circuit identification each dimmer slider and circuit breaker-switch combination is a different color.</p> <p>ON-OFF INDICATOR LIGHT Tells at a glance, even from across stage, when the dimmer is turned on.</p>
multi-circuit lighting control	 multi dimmer  quick-connect panel  breaker section  transfer switches	<p>model 71007 A small extremely flexible switchboard for small installations giving large switchboard performance with added house light control. The Davis Quick-Connect Panel allows dimmer control for as many as twenty stage lighting loads. Designed for easy installation.</p> 	<p>OPERATION LIGHTS Illuminates control area, even in darkest corner, with down-type recessed lights. Operation lights may be switched to bright or dim.</p> <p>CABINET Heavy code-gauge steel finished in gray hammertone. Has grill ventilator top and bottom. Lift-cover door with lock.</p> <p>Electrical Specifications: 2400 watts (max.) each dimmer circuit. 12,000 total watts (max. load of main dimmer coil). Power supply; 120V, 60 cy, a.c. (3-wire, single phase, with Quick-Connect Panel).</p>

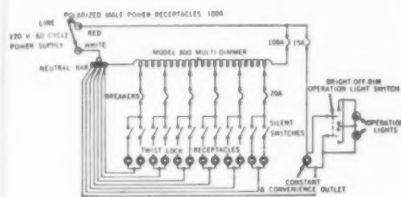
• featuring **TWO SCENE PRE-CONNECT**

SPECIAL FEATURES	SCHEMATIC CIRCUIT DIAGRAM	MODEL NO.	DIMENSIONS-inches			SAMPLE SPECIFICATION
			H	W	D	

TWO SCENE PRE-CONNECT



SCHEMATIC CIRCUIT DIAGRAM



model 710P4

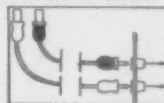
710P4
(2-wire) 20½ 10¾ 28½

710P5
(3-wire) 20½ 10¾ 28½

Weight: 155 lbs. net.

Accessories

Power Feeder Cable



Two single conductor heavy duty extra flexible rubber covered cables, two 100 amp polarized male pin plugs, two polarized 100 amp power feeder jacks for mounting in panel or wall box. Suggested cable length: not less than six feet.

Portable Caster Stand



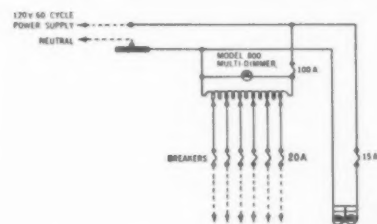
Sturdy metal stand, large hard rubber casters designed to support one, two or three Davis Console Portable Dimmers.

Furnish as shown on plan — Davis Console Portable Dimmers, Model —, as manufactured by Ariel Davis Manufacturing Company, Salt Lake City, Utah. Each Davis Console Portable shall contain: six dimmer circuits rated at 2400 watts and protected with 20 amp magnetic breakers; 12 twist-lock receptacles; 12 single pole, single throw silent switches—two for each dimmer—to provide "Two Scene Pre-Connect" control. The 12,000 watt autotransformer dimmer shall be Davis Multi-Dimmer Model 800.

surface or flush mounted

SPECIAL MODEL FEATURES	SCHEMATIC CIRCUIT DIAGRAM	MODEL NO.	DIMENSIONS-inches			SAMPLE SPECIFICATION
			H	W	D	

MODEL 71001 Load circuits controlled through dimmer or circuit breaker switch. All parts easily accessible from front of cabinet. For surface mounting installation.



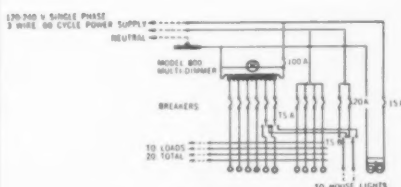
models 71001,-2

71001 42 16 10

71002
Can Size Trim 42 16 10
43½ 17½

MODEL 71002 Same as 71001 except for flush mounting.

MODEL 71005 QUICK-CONNECT PANEL Complete flexibility. 25 lighting loads are quickly connected to any dimmer or to line direct. Surface mounting.



models 71007,-8

71005 50 24 10

71006
Can Size Trim 50 24 10
51½ 25½

MODEL 71006 Same as 71005 except flush mounting.

MODEL 71007 TRANSFER SWITCHES For house light dimmer control or emergency switch. 20 lighting loads. Otherwise same as 71005.

MODEL 71008 Same as 71007 except flush mounting.

71007 50 24 10

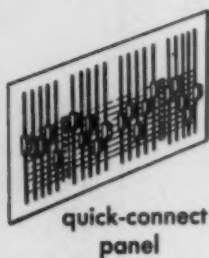
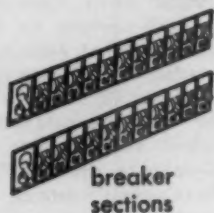
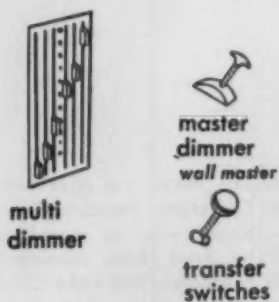
71008
Can Size Trim 50 24 10
51½ 25½

Furnish as shown on plan — Davis Panelette Dimmers, Model —, as manufactured by Ariel Davis Manufacturing Company, Salt Lake City, Utah. Each Davis Panelette shall contain dimmer circuits rated at 2400 watts and protected with 20 amp magnetic breakers. The 12,000 watt autotransformer dimmer shall be Davis Multi-Dimmer Model 800.

multi - circuit lighting controls

DAVIS WALL TWIN

EQUIPMENT KEY



OTHER DAVIS MODELS

wall twin • wall master

The Davis Wall Twin and Wall Master multi-circuit stage lighting control boards described on this page can be furnished with either the Quick-Connect Panel or the Plugging Panel circuit selectors. Each selector panel has particular advantages to take care of your stage lighting control requirements. Further information on these models is available upon request.

wall twin - model 720W1

DESCRIPTION



The Davis Wall Twin combines dimmers, circuit breaker switches, transfer switches, and the quick-connect circuit selector panel in one convenient and inexpensive package. A complete stage lighting control board that is extremely flexible, this unit was designed especially for the school stage. It is compactly designed, requiring a minimum of space, and is conveniently arranged for simple, easy operation, even by inexperienced student technicians.

FEATURES

MULTI-DIMMERS: Twelve autotransformer dimmers in two multi-dimmer assemblies. Sliders for finger master-dimming.

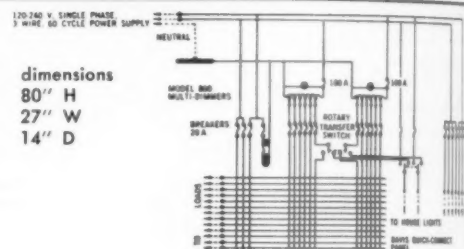
BREAKERS: Silent magnetic type. Each dimmer circuit, constant voltage circuits, convenience outlet, operation light and house light circuits, as well as the spare circuits, are individually protected. Overall protection is provided for each Multi-Dimmer coil.

QUICK-CONNECT PANEL: Provides complete flexibility. Any load combination to full capacity of dimmer or breakers can be quickly selected. Numbered, coded sliders. Easy to use. Safe, dead front.

TRANSFER SWITCHES: Connects two dimmers to house lights or to busses on quick-connect panel for stage circuit control.

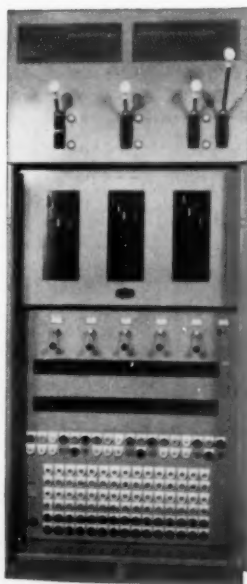
CABINET: Code-gauge steel, gray hammertone finish. Double lift-away hinged door. Grilled ventilators. For surface mounted installation.

SCHEMATIC CIRCUIT DIAGRAM



wall master - model 733W2

DESCRIPTION



The Davis Wall Master has the capacity to handle all stage lighting needs of schools, churches and little theatres. This completely flexible stage lighting control board combines slider and radial dimmers, circuit breaker switches, transfer switches, and the plugging panel circuit selector in a single compact unit. Controls are conveniently arranged for simple, easy operation. Professional stage lighting control is obtained even with inexperienced operators.

FEATURES

MULTI-DIMMERS: Eighteen autotransformer dimmers in three Multi-Dimmer assemblies. Sliders for finger master-dimming.

MASTER-DIMMERS: Three radial autotransformer dimmers for stage and house light control, or used with Multi-Dimmer to give electric proportional dimming. Interlock type, with master control.

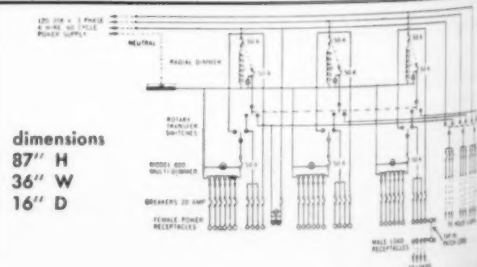
BREAKERS: Silent magnetic type. Overall and single circuit protection.

PLUGGING PANEL: Color-coded receptacles. Large number of lighting loads in minimum space. Panel is hinged for easy accessibility.

TRANSFER SWITCHES: Provide additional flexibility. Used with Master-Dimmers to control stage and house lights.

CABINET: Code-gauge steel, gray hammertone finish. Double lift-away hinged door. Grilled ventilators. For surface mounted installation.

SCHEMATIC CIRCUIT DIAGRAM





DAVIS CONSOLE MASTERS

EQUIPMENT KEY



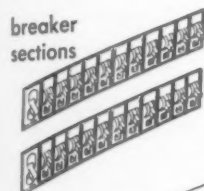
master dimmer



multi dimmer



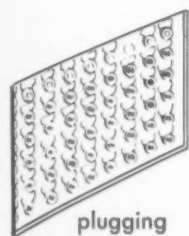
transfer switches



breaker sections



quick-connect panel



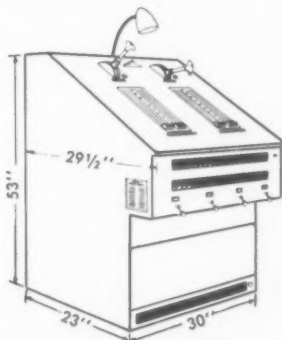
plugging panel

FEATURES

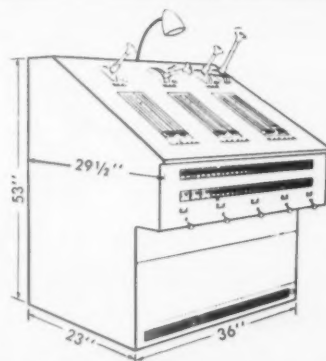
ELECTRICAL PROPORTIONAL DIMMING
UNPRECEDENTED FLEXIBILITY
STAGE LIGHT DIMMING
HOUSE LIGHT DIMMING

COMPACT—CONVENIENT
ECONOMICAL—EASY TO INSTALL
EASY AND SAFE TO OPERATE
QUICK-CONNECT OR PLUGGING PANEL

CONSOLE MASTER TWIN

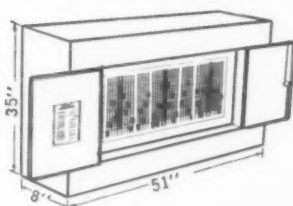


CONSOLE MASTER TRIPLET



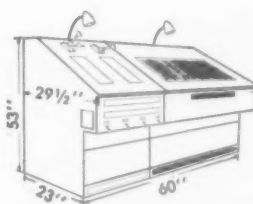
COMBINATIONS WITH TWIN AND TRIPLET UNITS

with wall mount
quick-connect



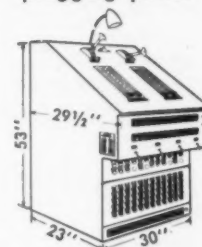
The Davis Console Master Twin or Triplet with this wall-mounted Quick-Connect Panel provides convenient selection and ease of operation in a minimum of floor space.
TWIN—model 722C1
TRIPLET—model 733C1

with console
quick-connect



The Davis Console Master Twin or Triplet with console-mounted Quick-Connect Panel provides convenient selection and ease of operation for installations where ample floor space is available.
TWIN—model 722C2
TRIPLET—model 733C2

with built-in
plugging panel

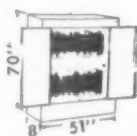
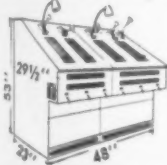


The Davis Console Master Twin or Triplet with built-in Plugging Panel provides added load capacity with "plugging panel" economy and requires a minimum of floor space.
TWIN—model 722C3
TRIPLET—model 733C3

other DAVIS console masters

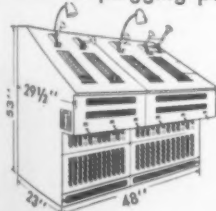
DAVIS CONSOLE MASTER 4-4

with wall-mount quick-connect



model
744C1

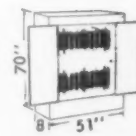
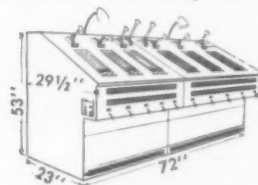
with built-in plugging panel



model
744C2

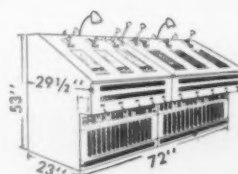
DAVIS CONSOLE MASTER 6-6

with wall-mount quick-connect



model
766C1

with built-in plugging panel



model
766C2

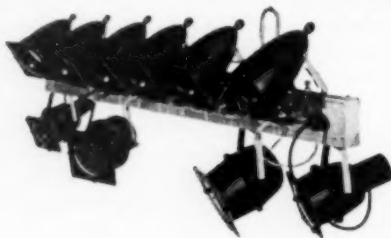
The Davis Console Master 4-4 and Console Master 6-6 provide convenient selection and ease of operation for installations where ample floor space is available. Further information on these models is available upon request.

ARIELITE stage lighting equipment

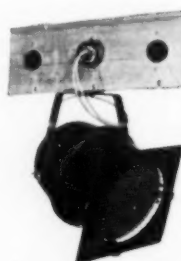


Davis equipment enables an auditorium to meet the varied lighting demands made upon it. You can provide the right effects for general assemblies, concerts, lectures, musicals, and dramatic productions with large or small casts. And this professional light-

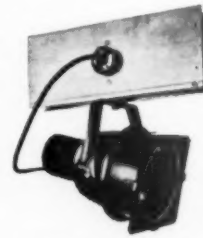
ing is priced well within the reach of schools, churches, and amateur theater groups. These Davis units are listed by Underwriters Laboratories, Inc.



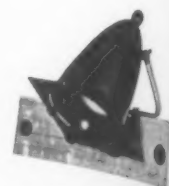
channel-mount batten plug-in strip A new balanced border that provides a complete lighting system in a single assembly. Takes the place of out-moded ineffective lighting and cumbersome pipe hanger assemblies.



stage master model ah-56
Excellent for cross lighting acting areas or spot lighting stage apron.



pin spot model aps-30
Ideal for illuminating small areas to produce dramatic effects, as on a soloist or single face.



torpedo unit model ah-3840
Especially popular for housing sealed beam spot and flood lamps for border light use.

FREE STAGE AND AUDITORIUM CONSULTATION

From Leading Stage Lighting Experts

Our local representative is your Ariel Davis factory trained stage lighting expert.

He will be pleased to place the complete facilities of the Ariel Davis Manufacturing Company at your disposal . . . and to arrange additional consultations with other Ariel Davis technical and dramatic experts.

Whatever you want—from stage and auditorium design consultation to lighting and dimming control equipment—you will be surprised how easily Ariel Davis can fit the optimum of flexibility and versatility into your stage lighting budget.

Call your local Ariel Davis representative. See how our dramatists, designers, and lighting experts integrate their activities to bring the maximum of flexibility and versatility to your stage lighting problem.

Investigate the Most Flexible and Complete Lighting Control System Made

Comprehensive technical data sheets are available on our complete line. For information concerning any size lighting control installation, simply give our representative your stage size, the power available, the amount of your budget and the control board position.

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WOodbine 1-1919

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CLearbrook 3-8396

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SC-1 Jan. 58



Printed in U.S.A.

STAGE EQUIPMENT

by Novelty



Auditorium Stage
(I.L.G.W.U.)
New York, N. Y.

Gold brocatelle front curtain
on motorized curved tracks
and white fiberglas curtain
in pulled up position.

MAURICE D. SORNIK, Architect
New York City

SPECIALISTS
in the DESIGN
and
MANUFACTURE of:

STAGE CURTAINS • SCENERY
CURTAIN TRACKS • STAGE RIGGING
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OUR THIRTY-NINTH YEAR

STAGE CURTAINS

by Novelty

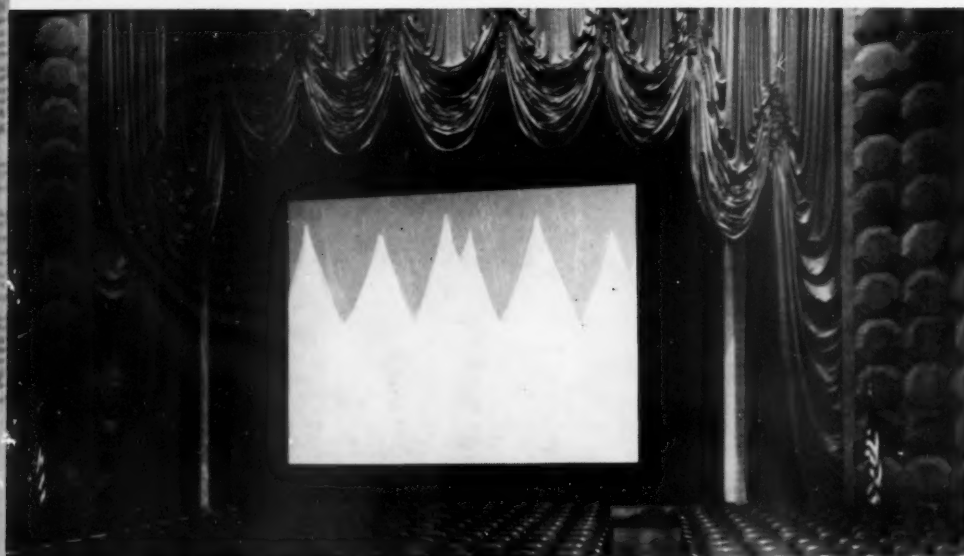


**Corona Avenue School,
Valley Stream, N. Y.**

Front curtain and valance — hand printed fabric.

Rear curtain and sides—plain neutral fabric.

FREDERIC WIEDERSUM, Architect



**Randolph Theatre,
Philadelphia, Pa.**

Contour curtain of Cardinal nylon shown in pulled up position with picture screen and complimentary masking curtains.



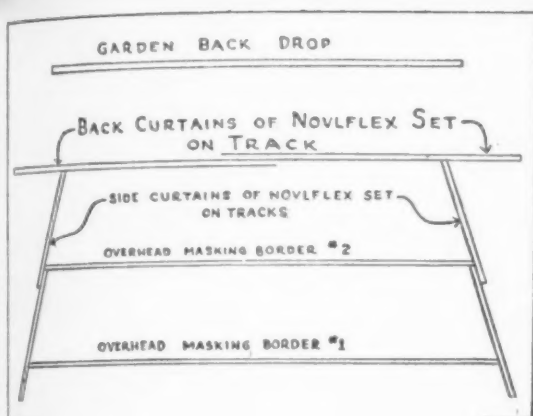
**Pickard Theatre, Bowdoin College,
Brunswick, Me.**

Fiberglas patterned material in 200% fullness, Maize, Silver and Gray, trimmed with fringe at bottom. Rich and dignified in appearance.

McKIM, MEADE & WHITE, Architects

THE Novlflex

STAGE SETTING

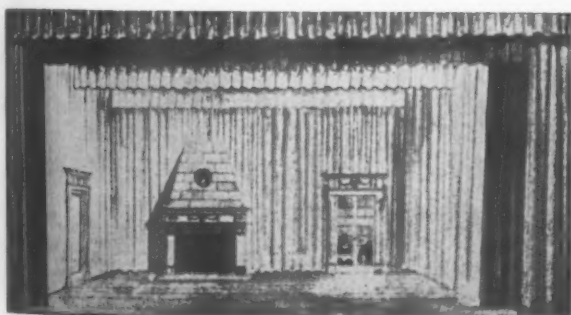


Floor plan of full stage setting, showing side curtains and rear curtains on track with garden back drop behind rear curtains.

For utmost flexibility with minimum cost, the NOVL FLEX setting is almost indispensable. This setting lends itself to changes and can be assembled in a multitude of forms.

The fabric portion of the setting forming the "walls" hangs from one hinged cyclorama batten (aligned like three consecutive sides of a rectangle); or hangs on tracks arranged across the back and sides so that the curtains may be drawn apart to leave openings, as may be required, at any location in the setting. The material used in this setting is preferable in neutral shades of tan, taupe or grey.

The NOVL FLEX setting can be applied effectively to any type of performance, from a modern scene to a fantastic costume play. Used together with a few specially built pieces to convey the proper atmosphere, a score or more variations in form and appearance can be produced.

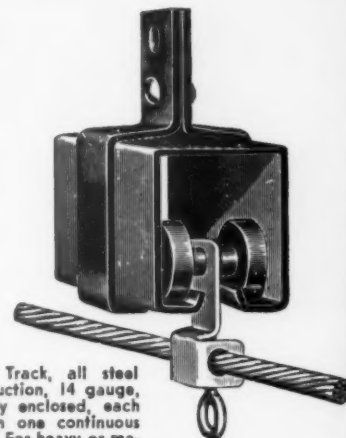


The NOVL FLEX setting shown with fireplace, French doors and door at stage right. Other formations are easily adaptable.



Garden Backdrop—showing arbors, balustrade and trees, effective in light and dark color contrasts.

CURTAIN TRACKS AND MACHINES



Silent Track, all steel construction, 14 gauge, entirely enclosed, each half in one continuous piece. For heavy or medium duty.



Autodrape curtain machine, fully automatic 1/4 h.p. or larger for curtains of greater dimension.



Light to medium duty Spanotrac, aluminum or magnesium. Recommended for windows and small stages.

TRAFFIC CONTROLS EQUIPMENT

Stanchions in brass, chrome, piping in steel and various fabrics colors.

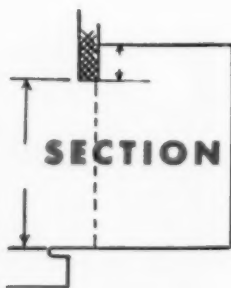
HANGING SPOTLIGHT

Suspended from ceiling or stage, ideal to highlight and create the atmosphere.

DRAPERIES *by Novelty*

Board Room, Corona Avenue School, Valley Stream, N. Y. DRAPES—Brown background with green, red and white print. MAHOGANY WALL PANELLING. GREEN LEATHER UPHOLSTERY.

SEND US YOUR STAGE AND WINDOW MEASUREMENTS



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Wenger

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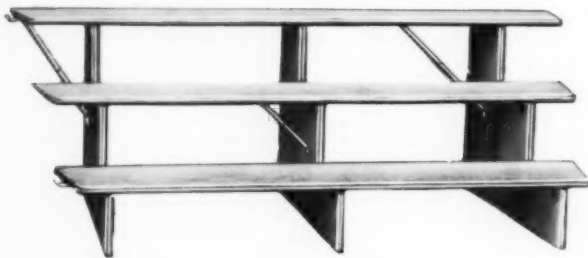
PORTABLE RISERS • STAGES • SOUSAPHONE CHAIRS



PIANO DOLLIES • MUSIC STANDS • MUSIC CABINETS

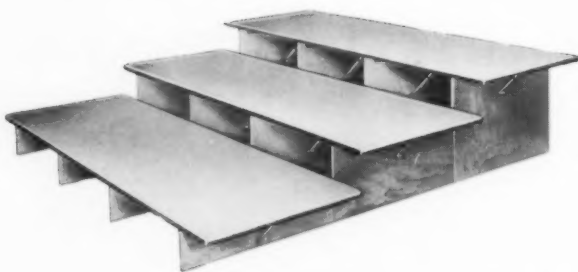


Wenger... MOST COMPLETE LINE OF RISERS



WENGER 3 STEP RISER

From storage . . . to rehearsal . . . to concert in minutes—a most amazing riser. Stronger, safer, easy to use and with exclusive WENGER features. Each step arranged to give Director perfect control—hear every voice—see every member. Sections set up fast—in fact a single section in one minute flat. An ideal riser for traveling groups.



**STEPS 32" DEEP
3-IN-1 ALL PURPOSE RISER**

This outstanding seated chorus Riser will accommodate any type event from graduating exercises and other mass groups to all musical events. Can be adapted to Band, Orchestra or Standing Chorus . . . arranged to fit any shape stage. Custom built to meet your own specifications. Write for Complete information



**STEPS 4' DEEP
WENGER 3-IN-1 BAND RISER**

Three entirely different set-ups possible with a single set of risers. Fits your Band or Orchestra uniformly into most compact space. Puts whole group in full view of audience. Makes a show piece of your band. Provides for multiple arrangements. Available with tubular steel or plywood legs. Write for information . . . No obligation.



DELUXE UNIT STORES IN
SMALL SPACE . . . only 2 feet
wide when folded down.



In a matter of minutes you can convert any area into a concert stage with this WENGER rectangular band riser. Provides more seating capacity—Makes your band look like a band with traditional seating. Foolproof bracing and spring catch fasteners in addition to overall heavy duty construction gives you unsurpassed safety for all occasions. In addition to an outstanding riser you get a BONUS Stage as well . . . see panel at right.

WENGER RECTANGULAR BAND RISER AND STAGE

AND STAGES IN THE WORLD

D-2/We

3 STEP RISER SECTIONS SET UP IN ONE MINUTE



1. UNBUCKLE STRAP.



2. FOLD OUT.



3. SNAP UP CROSS SECTIONS.

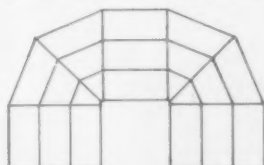
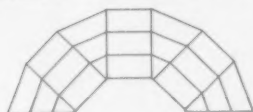


4. FLIP RISER RIGHT SIDE UP.



SPRING STEEL HOOKS HOLD SECTIONS TOGETHER FIRMLY

TYPICAL SET-UPS POSSIBLE WITH 3-IN-1 RISERS



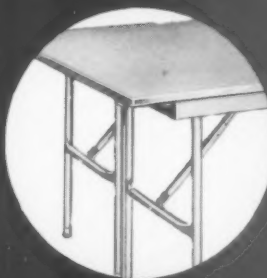
Through various arrangements of units you can fit these risers to the shape of your stage—Illustrated are only three of the possibilities. Write to WENGER for complete details.

RECTANGULAR BAND RISER CONVERTS TO PORTABLE STAGE... IN MINUTES!

Simple re-arrangement of sections gives you a stage for any occasion... Ask for free sketches or answers to your particular requirements.

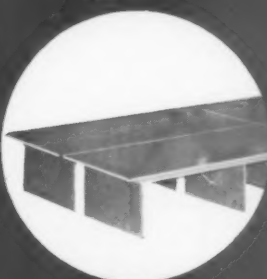


AVAILABLE WITH VARIOUS LEG TYPES



TUBULAR STEEL LEGS

Available in reinforced models. Fold down neatly, compactly. Snap up quickly. Braced for extreme strength... Superior WENGER design all the way.



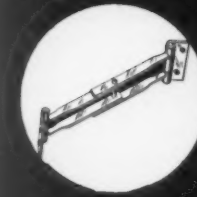
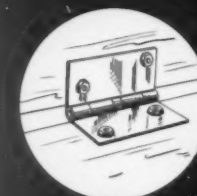
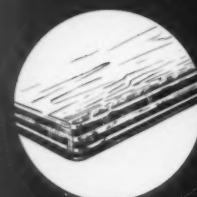
FOLDING PLYWOOD LEGS

Plywood legs extend across entire width of section—Fold down neatly for storage. Held securely with friction bracing.

BOTH TYPES AVAILABLE IN THREE HEIGHTS

8"—16"—24"... or custom-built to your specifications.

GET THESE OUTSTANDING FEATURES IN ALL WENGER RISERS



WENGER SOUSAPHONE CHAIR STAND



Even the smallest boy or girl can play the sousaphone when it's mounted in a WENGER Sousaphone stand... rests in specially designed cradle. Entire chair of welded tubular steel construction. Perfect for storage of instruments.

WENGER MUSIC STANDS

Featuring ALUMINUM desk and base... Modern graceful design... Neutral, no-glare finish... Finger-tip adjustment... Unbreakable base... Life time friction device... Stays in position... Three styles... Four colors.



WENGER MUSIC FOLIO CABINET

Ample space for 40 music folders in this neat Roll-Away type folio cabinet. All music instantly accessible. Encourages prompt rehearsals—eliminates confusion. A silent housekeeper for your rehearsal room. Sturdy $\frac{3}{4}$ " wood panel construction with heavy duty casters for easy moving.



WENGER PERCUSSION CABINET

Eliminates a common band room mess and also mis-use of drum equipment by non-percussion members. Keeps all items in a central handy place under lock and key. Four drawers for small accessories. Three shelves for cymbals, bells or larger equipment.

Sturdily constructed of $\frac{3}{4}$ " wood paneling. Rolls on rubber-tired, ball-bearing casters.

Wenger

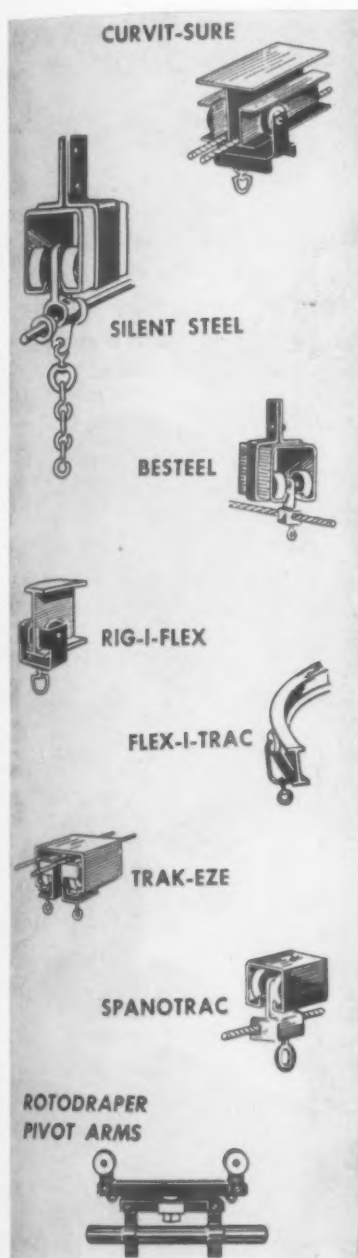
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120 WENGER BUILDING
OWATONNA • MINNESOTA

AUTOMATIC DEVICES COMPANY

2121 S. 12th Street, Allentown, Pennsylvania

A Curtain Track and Machine for Every Need...

PURCHASING GUIDE



TRADE NAME

Curvit-sure

SILENT STEEL

BESTEEL

Fenesteel

RIG-I-FLEX

FLEX-I-TRAC

TRAK-EZE

Spanotrac

HERCULES

SILVER SERVICE

autodrape

TOM THUMB

DESCRIPTION

Recommendations

Medium-to-heavy duty aluminum curved track for medium-to-heavy curtains. Neoprene ball-bearing carriers roll on two separate parallel treads. Minimum radius: six feet.	For all lengths.
Heavy duty steel fireproof curtain track for heavy weight curtains. Rubber ball-bearing carriers roll on two separate parallel treads.	For all lengths.
Medium duty steel fireproof curtain track for light and medium weight curtains. Rubber carriers roll on two separate parallel treads.	For lengths up to 36 feet.
Window curtain track—steel and fireproof. Installed single in one section featuring 16" overlapping master carriers. Rubber carriers roll on two separate parallel treads.	For lengths up to 36 feet.
Heavy duty aluminum cyclorama track for "walk-along" curtains. Neoprene ball-bearing carriers roll on two separate parallel treads. Curved on-the-job to any degree or radius.	For all lengths.
Light-to-medium duty aluminum cyclorama track for "walk-along" curtains. Nylon carriers roll on two separate parallel treads. Curved on-the-job to any degree or radius.	For short to medium lengths.
Medium duty aluminum window track for medium weight curtains. Installed single in one section. Single-wheeled nylon carriers roll on separate parallel treads.	For lengths up to 30 feet.
Light-to-medium duty aluminum drapery track for light-to-medium weight curtains. Installed single in one section featuring 7" overlapping master carriers. Rubber carriers roll on two separate parallel treads.	For lengths up to 20 feet.
Variety of models in 650 and 700 Series have ¾ and 1 HP motors, respectively, 60 cycles, 230 volts, 3 phase (available in other voltages, cycles or currents).	With all ADC tracks of any length.
Variety of models in 290 Series have ½ HP motor, 60 cycles, 230 volts, single phase (available in other voltages, cycles or currents).	With all ADC tracks up to 80 ft.
Variety of models in 93 Series have ¼ HP motor, 60 cycles, 115 volts, single phase (available in other voltages, cycles or currents).	With all ADC tracks up to 36 ft.
Variety of models in 145 Series have ½ HP motor, 60 cycles, 115 volts, single phase (available in other voltages, cycles or currents).	With all ADC tracks up to 50 ft.
Variety of models have 115 volts motor, AC, 25, 50 or 60 cycles, single phase. Machines available for automatic or non-automatic operations; instantly reversible at any point along travel.	With Spanotrac, Trak-Eze, Fenesteel, and Besteel tracks.

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ALLENTOWN, PENNSYLVANIA

AMERICAN SCHOOL AND UNIVERSITY—1958-59

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Manufacturers Of BEST Lighting Devices For BEST Low Cost White Or Color, Manual Or Automatic SCHOOL Lighting.

Do A Better Lighting Job WITH BEST 400 WONDER SPOTLIGHTS



Throws a concentrated beam of light wherever needed. Ideal for stage, bulletin boards, student displays, etc. Comes equipped with a fine Fresnel glass lens, highly polished reflector, asbestos cord, universal mounting bracket, gelatin color holder and three assorted gelatin colors. Handsomely finished in black wrinkle. Quickly adaptable to BEST Manually or Automatically Controlled COLOR WHEELS.

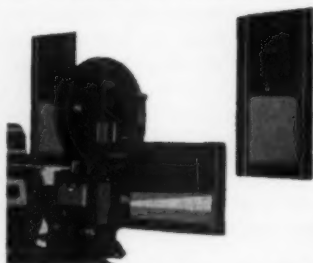


Color Wheels

Excellent where controlled automatic color changes are desired . . . on stages . . . for dances . . . special student displays! Long lasting, rich looking plastic colors of red, blue, green, amber and straw are easily inserted in 13" diameter plastic filter wheel . . . powered by 110 volt, 60 cycle, self-starting synchronous motor. Unit includes rubber cord and black wrinkle finish.



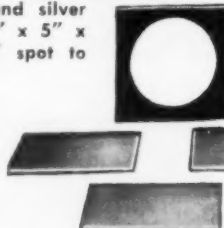
buy BEST APPROVED PORTHOLE FIRE SHUTTERS



Meets all state and city inspection laws that require gravity doors or shutters on school projection room portholes. Confines smoke and fire to projection room. Reduces panic and destruction to a minimum.

Model "O" Pee Wee SPOTLIGHT

A handy compact, light weight, 100 watt spotlight for short range lighting. Provides top, side or high color or white subject lighting. Extreme low cost permits the use of one or several with economy. Has polished mirror, Fresnel lens, universal mounting bracket, gelatin color holder and 3 sheets of assorted colored gelatin. Black and silver wrinkle finish; size 4 1/2" x 5" x 2 1/2"; range: from 12" spot to 36" spread at 3 feet.



• Write For Catalog •

Catalog contains a wealth of school lighting equipment and accessories to help you plan your special lighting requirement.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

CAPITOL STAGE LIGHTING CO., INC.

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529-531 West 45th Street, New York 36, N. Y.

"The Answer to Your Spotlight Problem"

The Capitol

No. 901 Spotlight

This Spotlight affords illumination that is clear, white and without flicker or noise. It can easily be focused from an 18" head spot at 100 feet to flood a full stage with even light at the same distance. Yet it uses only a 1000 or 1500-watt T-20 prefocus-base long-life lamp, obtainable anywhere. It is the **ONLY** Mazda Spotlight with all these features:

- 1 Using a 1000 or 1500 watt prefocus projector type bulb with double lens optical system for maximum brightness.
- 2 Truly round spot of even illumination formed by a precision Iris shutter.
- 3 Handle for following also instantly adjusts size of spot from head spot to flood.
- 4 Lever for masking top and bottom of light for special effects or when floodlighting.
- 5 Six independent magnetically controlled colors, fingertip controlled, making possible other colors by combining two or more.
- 6 Built-in fingertip magnetically controlled dowsers for fadeouts—controlling brightness.
- 7 Convenient built-in double pole switch.
- 8 Designed for ease of operation and simplicity of control.

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Portable Borders
Footlights
Effects
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Connectors
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Every Stage Need

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PRICE, COMPLETE

\$250.00

Lamps not included.

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3 South 12th St., Richmond, Va.

Colonial THE NEW LIGHT CONTROL CURTAIN

• EXTRA STRONG

Sturdy, durable vinyls of premium quality fabricated by the most modern electronic methods assure the long life and durability of our fine product. Special attention has been paid to the areas most vulnerable to wear and tear. All side hems are rolled to prevent snagging and tearing when drapes are drawn over vents or window sill bric-a-brac headings are integral with the body of the drape no seams to tear or separate. Heavy brass eyelets, set in the same tough material used in the manufacture of safety glass, make it almost impossible for hooks to pull out even under abnormal usage sunproof fadeproof and, of course, fire resistant to comply with the requirements of every state. Should a window glass be broken, the COLONIAL drapery will protect the room until repairs can be made. They are absolutely water and stain proof their smooth, lustrous faile embossed surface discourages dust easily freshened with damp cloth.

• ATTRACTIVE

Functional solid color opaques exciting ALLEGRO multi-colored opaque print glare reducing translucents. All available through your dealer from COLONIAL any style custom made to your requirements and thoroughly guaranteed.

• ECONOMICAL

Even though the materials used in COLONIAL drapes are laminated and extra heavy, their very nature insures much lower installed cost than other materials that are more easily damaged and short lived. Often two classrooms can be equipped for complete light control at a price that would ordinarily take care of only one.

• QUALITY

COLONIAL darkening drapes are not to be confused with the thin plastic imitations that sometimes find their way into the market. Our heavy gauge material is especially formulated and designed for strenuous everyday use exceeding the requirements for serviceability passing every test for satisfactory performance.

• FIRE RESISTANT • LIGHT PROOF • WATER PROOF • FADEPROOF

Write for prices, samples and specific architectural information

AMERICAN SCHOOL AND UNIVERSITY—1958-59



COLONIAL draperies are especially designed for classroom requirements.



Complete light control with finger-tip operation.



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GRAND STAGE LIGHTING CO.

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Fenton High School—Bensenville, Ill.
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Bearing High School—Portland, Maine
Luther High South—Chicago, Ill.
Veterans Hospital—Downey, Ill.
Mount de Chantel Academy—Wheeling, West Virginia

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Onarga Community Schools—Onarga, Ill.
College of St. Francis—Joliet, Illinois
Belleville Township High School—Belleville, Ill.
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Raleigh, North Carolina
Field Kinley High School—Coffeyville, Kansas
Niles Senior High School—Niles, Michigan
Uniondale High School—Uniondale, N. Y.
North Olmsted Community Theatre—
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Mount Carroll High School—Mount Carroll, Ill.
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Bloomville Township High School—
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Horton Watkins High School—St. Louis, Mo.
Walter French Jr. High School—Lansing, Michigan

Northwest Missouri State College—Maryville, Mo
Burnt Hills-Ballston Lake Central School—
Ballston Lake, N. Y.
Girard High School—Girard, Ohio
Gehlen Grade and High School—Lemars, Iowa
Marengo Public Schools—Marengo, Ill.
College High School—Bartlesville, Oklahoma
Central High School—Scranton, Pa.
Canisteo Central School—Canisteo, N. Y.
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BORDERLIGHTS

Alzak reflectors, heat resisting colored glass roundels, chain hangers, scenery guards, splice box.



No. 414

cat. no.	length	outlet wattage	outlet centers	weight lbs. per ft.
411*		100	6"	7
413*		200/300	8"	8
414*		300/500	12"	9
417*		150	6"	7
450†	to order	100	6"	7
453†		150	6"	8
455†		200/300	8"	8
460†		300/500	12"	9
412**	6'	100	6"	7

*Combination holder for roundels, gelatine or cinemoid.

†Spring ring holders.

**Sidearm clamp pigtail leads and 15 amp connectors.

DISAPPEARING FOOTLIGHTS

Alzak reflectors, heat resisting colored glass roundels, kiln-dry maple trim, automatic mercury cutoff switches.



No. 817

cat. no.	length	outlet wattage	outlet	weight lbs. per ft.
815*	All	25/100	15	50
816	5'2"	100	12	50
817		150	9	86

*Continuous Alzak reflector (no roundels).

"PAINT WITH LIGHT"® STRIP LIGHTS

Combination holders with 55° spread, heat resisting colored glass roundels, individual compartments, wired for PAR or R type lamps.



No. 391

cat. no.	length	PAR and R type lamps	outlets	wt. lbs. per ft.
391	6'	150/300	12	39
394	4'6"	150/300	9	29
397	7'6"	150/300	15	47
431*	6'	150/300	12	45
434*	4'6"	150/300	9	35
437*	7'6"	150/300	15	53
470†	8'	300	12	80
475†	8'	500	9	90

*Includes 6 pigtail leads and 15 amp connectors.

†With stripped glass filters.

LEKOLITES® PRECISION BEAM

Alzak ellipsoidal reflector, heat resisting lenses, built in 4-way adjustable shutters, yoke and C clamp, color frame, wire lead.



No. 1591

cat. no.	lens diam.	wattage	beam spread	weight (lbs.)
1568	8"	1000/2000	22° Max.	97
1575	8"	250/750	26° Max.	30
1581	4½"	250/750	50° Max.	13
1591	6"	250/750	40° Max.	17
1566	8"	1000/2000	24° Max.	97
1579	8"	250/750	19° Max.	30
1587	4½"	250/750	45° Max.	13
1597	6"	250/750	24° Max.	17

FRESNELITES® SOFT EDGE BEAM

Alzak spherical reflector, heat resisting Fresnelens, yoke and C clamp, color frame, wire lead. Adjustable focus.



No. 500

cat. no.	lens dia.	wattage	beam spread	weight (lbs.)
500	6"	250/750	20°-60°	7
526	8"	1000/1500	15°-45°	18½
530	10"	2000	25°-60°	24
534	14"	5000	24°-60°	46

FLOODLIGHTS WIDE SPREAD

Alzak reflector, have yoke and C clamp, wire lead.



No. 2927

cat. no.	lens dia.	wattage	beam spread	weight (lbs.)
2927*	10"	250/400	130°	4
1302	14"	500	130°	9
1305	16"	750/2000	130°	8
1318	18"	750/2000	130°	15

*2927 universal mounting bracket.

CENTURY LIGHTING, INC.

century lighting equipment is engineered lighting equipment

INCANDESCENT FOLLOW SPOT



Medium intensity, sharp or soft edge follow spot with iris and horizontal cutoff shutters.

cat. no.	lens diam.	wattage	beam spread	weight
1542	12"	3000	12° Max.	150
998	6"	1500	20°-32°	150
999	6"	60V	20°-32°	200



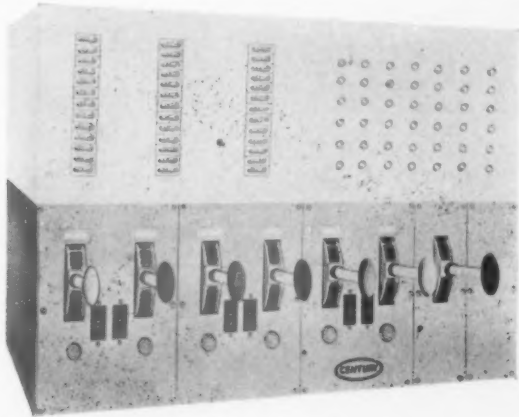
Alzak ellipsoidal reflector, heat resisting lens. Built in parallel horizontal shutters and iris, flip in spread lens for wide beam, spring balanced stand, switch and cable, focusing handle and lock.

CONTROL EQUIPMENT

Dimmer Pak (with or without) Interplug Pak

Either portable or permanently installed, this type unit may be used in schools, churches, community theatres, clubs and restaurants.

It uses variable capacity auto-transformer type dimmers. Load connectors may be either permanent or portable.



FRESNELITE JR. (2 Designs)

Alzak spherical reflector, heat resisting Fresnelens, yoke, base cord and Hubbell plug.



cat. no.	lens diam.	wattage	beam spread	weight
523	3"	75/150	15°-40°	3 1/2 lbs.
1211	3"	75/150	16°-40°	3

FLOODLIGHTS—NARROW BEAM

Alzak parabolic reflector, built in baffle, yoke and C clamp, focusing adjustment, color frame, wire lead.



cat. no.	reflector dia.	wattage	beam spread	wt. (lbs.)
1502	16"	1000/2000	18°-24°	22 lbs.
1515	10"	250/750	12°-20°	13

PROJECTORAMA®—PROJECTION MACHINE

Wide angle scene projector #1175 has 1 1/2' to 1' spread.

Others range between 30° and 60° spread. State problem.

2464—7 way remote control automatic slide changer for 1175.

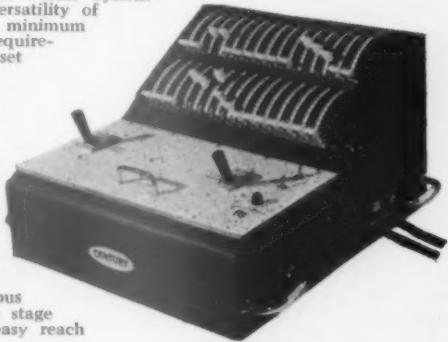


cat. no.	lens system	wattage	beam spread	wt. lbs.
1172	to meet	2000	Variable	33 lbs.
1173	to meet	3000	Variable	50
1174	to meet	5000	Variable	70
1175	to meet	5000	50°-72°	175

THEATRON TWO-SCENE PRESET

REMOTE DIMMER CONTROL SYSTEM

The Theatron Dimmer Preset System provides maximum versatility of lighting control with minimum operational space requirements. Two-scene preset facilities are provided for both circuit selection & brightness controls. Constant potential circuits are also provided. Minute currents are used to efficiently manipulate the lighting loads, so the operational components are miniaturized. They are accommodated in a small space, so the numerous controls for elaborate stage lighting are within easy reach of a single operator.



KLIEGL BROS.

321 W. 50th St., New York 19, N. Y.

KLIEGL**STANFORD UNIVERSITY AUDITORIUM**

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Pflueger, Spencer & Ambrose, Architects

Buonaccorsi, Murray & Lewis, Mech. & Elec. Engineers

**ARTS & CRAFTS BUILDING**

Ohio State Fair Grounds

Sims, Cornelius & Schooley, Architects & Engineers

**FAIRMONT SENIOR HIGH SCHOOL**

Kettering City School District

Karl Thomas Parrish, Architect-Engineer

**LIGHTING**

The Educational Theatre Division of Kliegl Bros. serves in a planning and advisory capacity to assist school personnel, architects and engineers in the solution of lighting problems. If requested, this division will submit without obligation lighting plans, specifications, illustrative material and budget prices to meet individual project requirements.

For a complete installation of lighting and lighting control equipment, the logical choice is Kliegl. Unexcelled skill and experience has made Kliegl "THE GREAT NAME IN LIGHTING." Kliegl equipment is designed for simple, safe operation; constructed to withstand the hardest use, yet so engineered as to give the "professional touch" to your school functions. Students of any level, from grade school thru college, can competently operate Kliegl equipment with a minimum of instruction.

All equipment is of the finest materials and our workmanship maintains the highest possible standards. The ruggedness and quality of Kliegl equipment is proven by the fact that numerous Kliegl installations are still giving trouble-free daily service after periods exceeding a quarter of a century.

For the finest equipment and matchless experience, contact Kliegl, "THE GREAT NAME IN LIGHTING."



EDUCATIONAL THEATRE DIVISION

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UNIVERSAL ELECTRIC STAGE LIGHTING CO. INC.

321 W. 50th ST., NEW YORK 19, N. Y.

ORIGINATORS AND MANUFACTURERS OF KLIEGLIGHTS

for Today's Schools and Auditoriums

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AUDITORIUM LIGHTS	KLIEGLIGHTS
DOWN LIGHTS	(ELLIPSOIDAL)
FLUSH LENS	LINNEBACH
LOUVER	PROJECTORS
REGRESSED LENS	
HI-HATS	
BATTEN STRIPS	MUSIC STANDS & LIGHTS
BOOTH SPOTLIGHTS	PATTERN PROJECTORS
BORDERLIGHTS	PERMANENT
DISAPPEARING	FOOTLIGHTS
FOOTLIGHTS	PLANO-CONVEX
FLOODLIGHTS	SPOTLIGHTS
FRESNEL LENS	PROSCENIUM LIGHTS
SPOTLIGHTS	REMOTE COLOR
FRONT LIGHTS	CONTROL SPOTLIGHTS
GYMNASIUM LIGHTS	SCIOPTICONS
KLIEGBOARDS	SLIDE PROJECTORS
AUTOTRANSFORMER	STAGE & WALL POCKETS
KLIEGTRONIC	STRIP LIGHTS
MAGNETIC AMPLIFIER	TORMENTOR LIGHTS
MEMORY SWITCHER	WIRING DEVICES
MOTOR DRIVEN	
ROTOLECTOR	
SAFPATCH	

TWO COMPLETE CATALOGS

THEATRICAL LIGHTING CATALOG T-61—84 pages. Completely revised, contains factual information, illumination data, pictures, diagrams covering latest lighting and control equipment for theatres, auditoriums, schools, stages.

ARCHITECTURAL LIGHTING CATALOG A-11—Latest ideas, fixtures, special units for commercial, industrial and home lighting. Illustrations, charts, tables of Lumens; other technical data on Flush lens units, downlights, picture and accent lighting, wall washers, etc.

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New York, N. Y.

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AMERICAN SCHOOL AND UNIVERSITY—1958-59

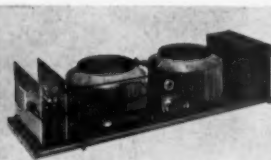
LUMITRON DIVISION

METROPOLITAN ELECTRIC MFG. CO., 22-52 Steinway St., Long Island City 5, N. Y.

THEATRE AND TELEVISION LIGHTING AND LIGHTING CONTROL

STAGE LIGHTING CONTROL
BECOMES A SAFE, SIMPLE
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BY LUMITRON—
THE FOREMOST NAME
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PRESENTING . . .



THE ULTIMATE IN MAGNETIC AMPLIFIER DIMMERS

FOR LIGHTING LOADS UP TO 10,000 WATTS

AND NOW

. . . a radically new concept in Magnetic Amplifier design, specifically developed by LUMITRON for TV and Stage Lighting Control.

Featuring totally inert components, the modularly designed LUMITRON Magnetic Amplifier has a unique universal load ratio. Comparison proves that this new Magnetic Amplifier provides nearly twice the load capacity of competitive Dimmers. Comparison also proves that the LUMITRON Dimmer offers the multiple advantages of a Magnetic Amplifier in a more compact, infinitely superior unit which costs less, weighs less and takes up much less space. *Guaranteed for three years.*

COMPARE . . . and you will find the dependable, economical LUMITRON Magnetic Amplifier to be the only logical choice for low cost, high quality Lighting Control.



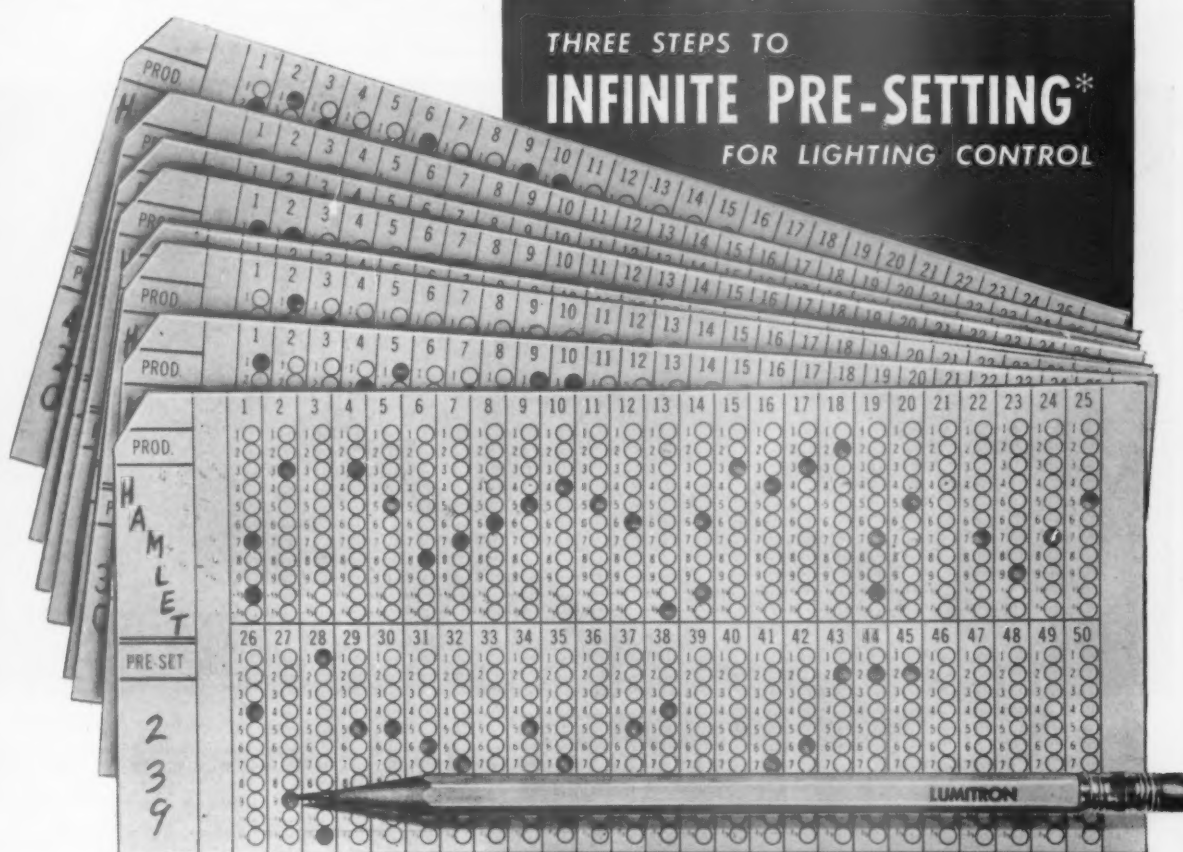
SPECIFICATIONS	LUMITRON Magnetic Amplifier	MAGNETIC AMPLIFIER "A"	MAGNETIC AMPLIFIER "B"
POWER CAPACITY	10,000 Watts	6300 Watts	6300 Watts
LOAD RANGE	1-10,000 Watts	210-6300 Watts	210-6300 Watts
SIZE	1.4 cubic feet	2.7 cubic feet	2.1 cubic feet
WEIGHT	146 pounds*	158 pounds*	156 pounds*
LINE VOLTAGE REGULATION	±2% for ±15% line voltage	none	none
OUTPUT CURVE CONTROL	from linear light to linear voltage exactly as specified	slight arbitrary adjustment	slight arbitrary adjustment
PRICE	competitive*	competitive*	competitive*

*Note that the price and weight of the LUMITRON 10,000 Watt Dimmer is compared with the other 2 units of 6300 Watt capacity. It is, therefore, less expensive and lighter.

Because of the size, weight and rugged construction of the LUMITRON Dimmer, a system utilizing it can be supplied which will "troupe" satisfactorily.

C. L. Schuler, Inventor
PATENTS PENDING

LUMITRON DIVISION, METROPOLITAN ELECTRIC MFG. CO.



*S. J. Skirpan, Inventor
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THREE STEPS TO INFINITE PRE-SETTING*

FOR LIGHTING CONTROL

1. MARK LIGHT SETTINGS ON LUMITRON CUE SHEETS
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IT'S AS SIMPLE AS 1, 2, 3! . . . the all-electronic, all-new LUMITRON INFINITE PRE-SET LIGHTING CONTROL SYSTEM. Far superior to anything now available, it eliminates guessing, cue translation and human error to permit the prompt accomplishment of the desired lighting design. Every cue is electronically interpreted and always explicitly followed. The tubeless LUMITRON System provides an infinite number of Pre-sets for the swift achievement of the finest, most complex lighting designs . . . and frees the Lighting Designer from routine tasks.

Here, in a compact, table-sized Console, is the most revolutionary concept of stage lighting control yet devised.

CHECK THESE ADVANTAGES:

- ✓ UNLIMITED NUMBER OF PRE-SETS AVAILABLE TO THE LIGHTING DESIGNER
- ✓ PROVIDES AN ALTERABLE OR PERMANENT RECORD OF THE LIGHTING PLOT OF EVERY SHOW
- ✓ ABSOLUTE SIMPLICITY OF OPERATION
- ✓ AUTOMATIC, YET ALWAYS UNDER THE CONTROL OF THE OPERATOR
- ✓ NO TUBES — NOTHING TO WEAR OUT — LOW MAINTENANCE
- ✓ COMPETITIVELY PRICED WITH SYSTEMS LIMITED TO ONLY TEN PRE-SETS
- ✓ FULLY GUARANTEED — INSTALLED AND MAINTAINED BY EXPERT LUMITRON ENGINEERS

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Creative Engineering for the Living Theatre by...

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DIVISION

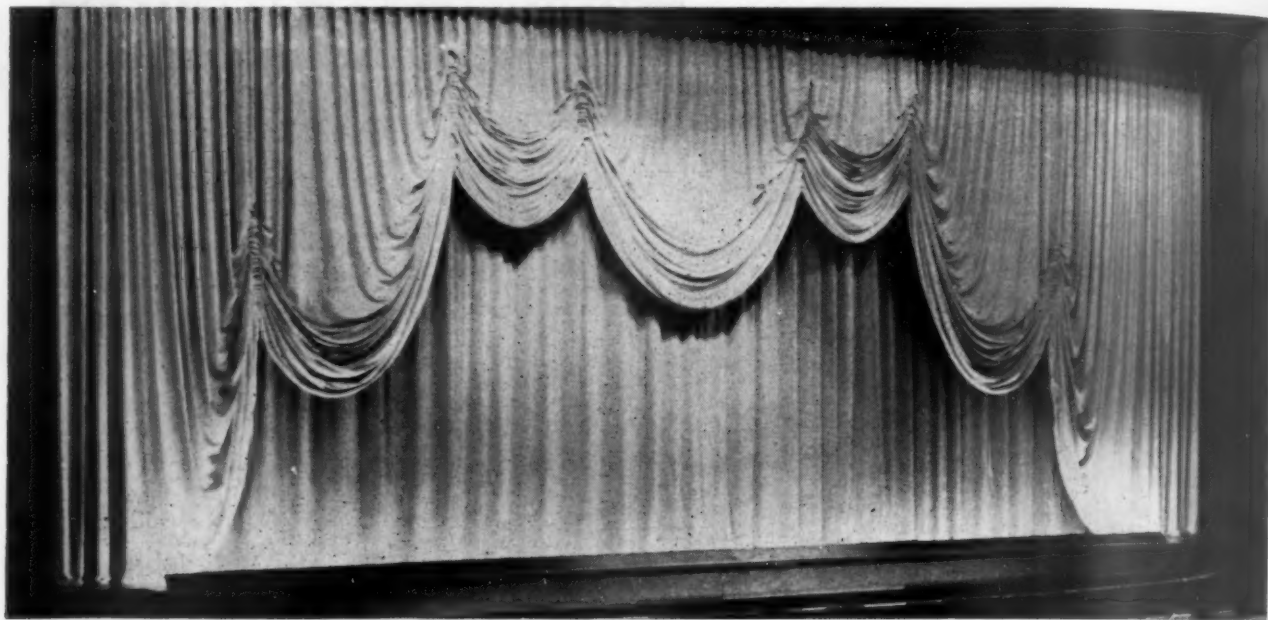
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"The World's Largest Manufacturers of Projection Arc Lamps"

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FOLLOW SPOTLIGHTS

— are the only spotlights that give you all these advantages!

● Ordinary spotlights, to reduce spot size, must mask out or iris down part of the light beam, thus wasting much of the light for which you are paying. The resultant spot is usually fuzzy-edged and irregularly shaped. With the exclusive, single-control, two-element variable focal length objective lens system of Strong Spotlights, the brilliance of the spot actually increases as it is reduced in size, is sharp edged from head to flood, and continues perfectly round throughout the range.

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High Intensity D.C. Carbon Arc Spotlight

Delivers 2½ Times As Much Light as the Most Modern A.C. Spotlight!

Extremely economical operation for projection throws of over 200 feet and where greater brilliancy is needed on shorter throws. Ideal for large auditoriums, arenas and traveling shows. Automatic arc control, built-in power conversion transformer and selenium rectifier. Costs only 2/3 as much as spots which require separate generator or rectifier. 80-minute carbon trim. Meter for checking line voltage. Tap-changing switch for adjustment of power supply. Ultra-violet filter for black light effects. 220 and 110-volt A.C. models.

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Up to 15 Times More Light

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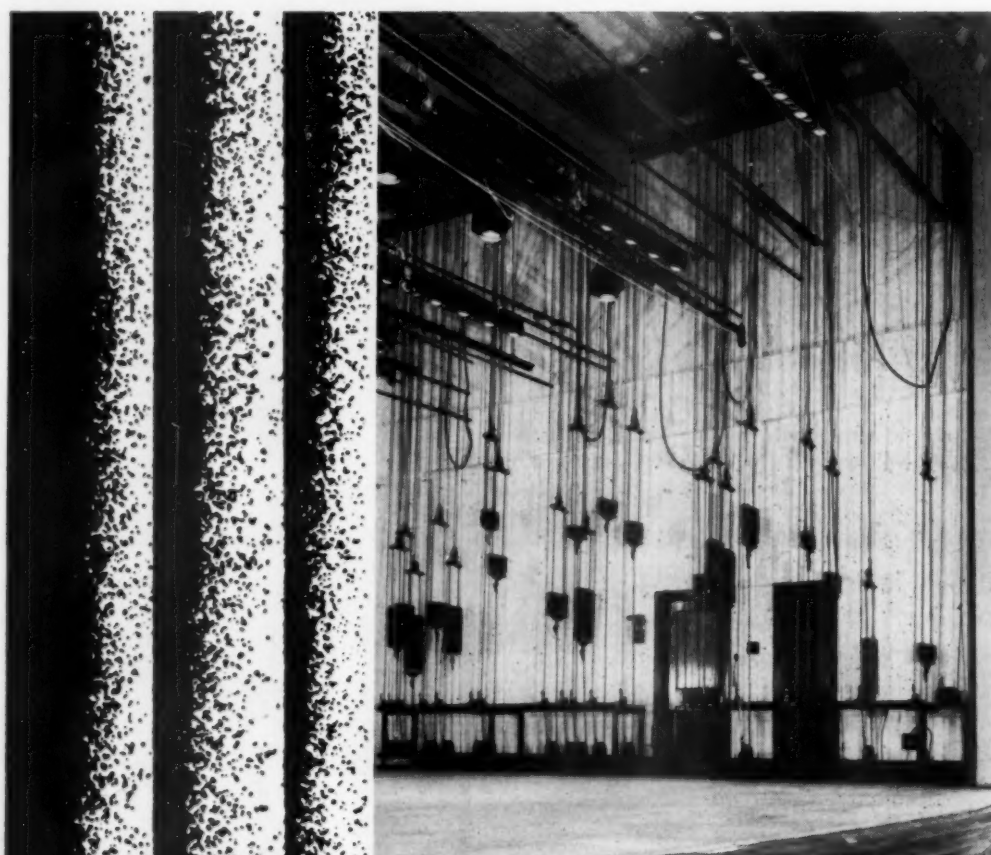
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"Consult Pittsburgh"

Our Curved Cyclorama Tracks create beautiful stage settings that can be converted quickly and easily from a large area to a smaller unit for one-act plays - - or cleared for other uses.

Let us design a modern, dramatic stage setting that can be quickly and easily adapted to your every need.

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**CURTAIN CONTROLS
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SPECIAL OPERATING
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VISUAL ROOM DARKENING

For windows, glass walls, exhibits, and displays

No. 90 Vallen Window Track

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—a multi-purpose track, can be installed recessed or exposed.

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Vallen Noiseless, All-Steel Safety Tracks

Curtain carriers consist of single wheel Vallen "plumb-bob" design with two rows of ball bearings in hub of wheel.

No. 152 equipped with rearfold feature. Provides easy operation. As each foot of operating line moves, there are two feet less of curtain to move.

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—rugged economy unit.

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No. 11 Vallen Super Curtain Control

—the premium unit for large stages or special applications.

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—efficient, dependable.

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—compact and simple.

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—the economy unit.

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World famous for the finest curtain operating equipment since 1916

THE BREWER-TITCHENER CORPORATION

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BTC

FOLDING CHAIRS and TABLES

BTC



Budget-Rite Folding Table

A low-cost table that is really rugged—supports over 20 times its own weight. Easy to set up and take down. No knee interference due to pedestal legs. Plastic, Plywood or Masonite Presdwood top. 6 or 8 ft. length with 30" width, 29" height. Packed 2 per carton.



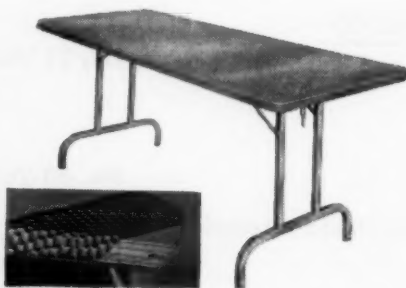
Standard Folding Table

Strong, durable, good looking—all at a modest price. Plywood, Masonite or Formica top. 6 or 8 ft. length. 30" or 36" width; 24", 25", 27" or 30" height. Packed 2 per carton.



Featherlight Folding Table

Lightweight—6 ft. table with Formica top weighs slightly over 40 lbs. Amazingly strong—supports over 30 times its own weight due to aircraft-type Hexacomb top construction. Ample knee room on all sides. Sets up, takes down easily. Thrifty Masonite Presdwood or colorful, mar-resistant Formica top. 4, 5, 6 or 8 ft. length; 30" or 36" width; 24", 25", 27" or 29" height. Packed 2 per carton.



HEXACOMB TOP

Magnified view shows thousands of impregnated air cells which reduce Featherlight Table's weight.

Custom Folding Chairs

210 color combinations offer endless opportunities for decorating large or small rooms. Comfortable padded seats and backs fold together to protect upholstery in storage. Choose from 15 colorful Duran or Boltallex plastic coverings, 14 rich baked enamel finishes. Husky all-steel construction. "X" type frame won't wobble, tip or collapse. Non-squeaking, open and close in a single motion. Silent non-skid rubber-padded feet. Fold flat for storage. Ganging and aisle spacing braces available. Packed 6 chairs per carton.

Round Table with 54" or 60" Plywood top also available. 30" height. Packed 1 per carton.

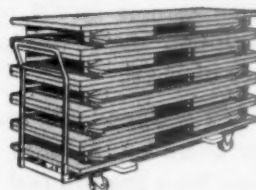
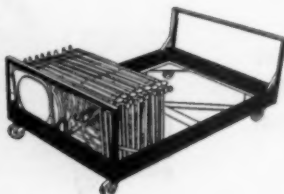
VERTICAL CHAIR TRUCK

For moving and storing 24 chairs. Chairs suspend on truck—can't shift or topple over. 19 1/4" wide x 42" long x 44" high without chairs.



HORIZONTAL CHAIR TRUCK

Built for understage storage. Holds 36 chairs—can be hooked in tandem. 38" wide x 63" long x 24" high with chairs.



UNIVERSAL FOLDING CHAIR and TABLE TRUCK

For all popular makes of folding chairs and tables. 6 ft. truck holds up to 72 chairs or 12 tables. 8 ft. truck holds up to 96 chairs or 12 tables. Rugged all steel welded construction; hard rubber wheels.

Write for BTC Folding Chair and Table Color Booklets

D-3/Ba

*Designed exclusively
for the schools
of America*

CATALOG NO.
55-115



Barricks

SCHOOL SERIES
AMERICA'S FINEST
FOLDING TABLES

IN A CLASS BY THEMSELVES

BUILT TO LAST
A LIFETIME



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large or
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Choose
Bolton
naked
feel con-
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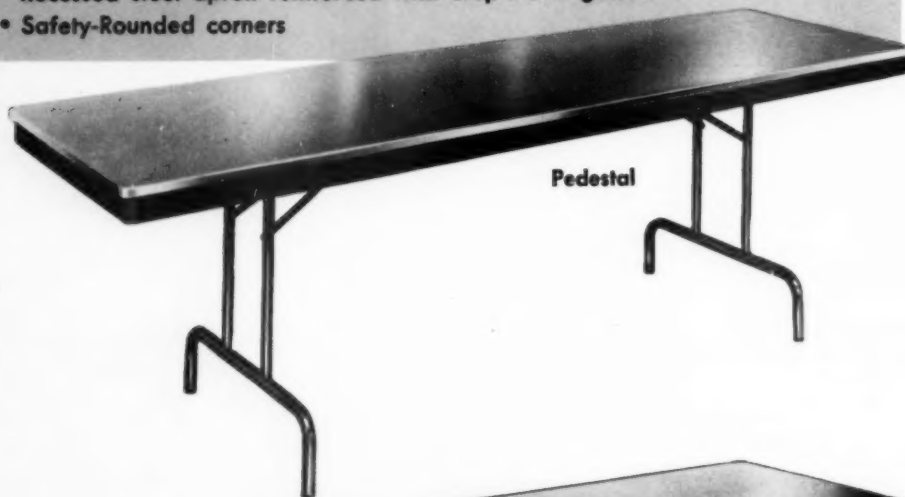
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12 tables.
12 tables.
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SCHOOL SERIES

FEATURING BARRICKS PATENTED AUTOMATIC LEG LOCKS
WITH STEEL MONORAIL CONSTRUCTION

BARRICKS' EXCLUSIVE ENGINEERING FEATURES

- Patented Finger Touch Automatic Leg Locks with safety latch
- Steel Monorail construction
- Smooth, Sanitary tops
- Recessed steel apron reinforced with Step-Down gussets
- Safety-Rounded corners
- Sturdy Pedestal Legs
- Extruded Aluminum or Plastic edges

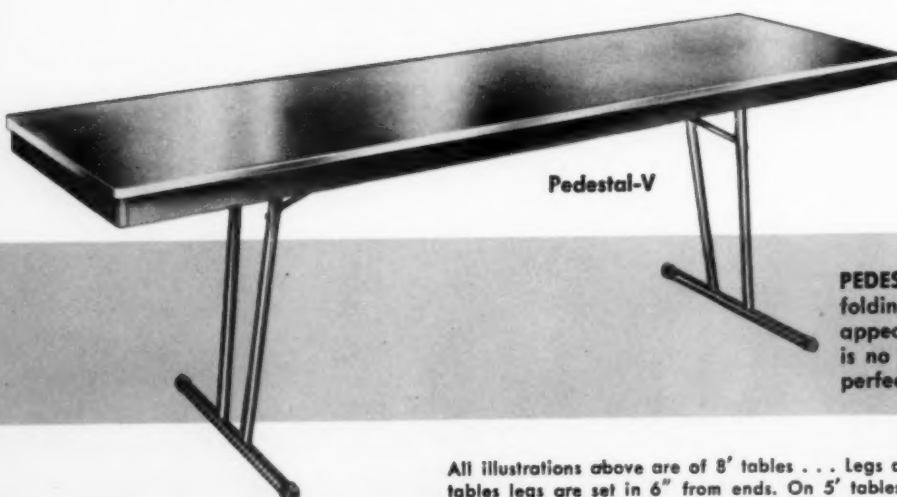


Pedestal



the "CONTEMPORARY"
(Patents Pending)

A Fine Folding Table with all of the features of a Stationary Leg Table . . . for library, conference room, study hall or cafeteria. It is completely rigid . . . beautifully streamlined and as modern as tomorrow, yet it folds quickly and compactly.



Pedestal-V

BARRICKS SCHOOL SERIES

Not just another folding table, but a table designed specifically, to meet the needs of the American School. The School Series is basically the same in design and construction as the Famous Barricks De Luxe Series which have been proven through years of service in the nation's leading Hotels, Clubs, Universities, and in industry where quality, functional design and maintenance are carefully weighed against the initial cost.

Barricks Folding Tables are built on an entirely new principle of design and engineering, incorporating these features:

- Steel monorail construction utilizing a rigid, light-weight, rust-proof monorail, 2½" wide.
- Patented, self-compensating Finger Touch, Automatic Leg Locks with Safety Latch, UNCONDITIONALLY GUARANTEED, regardless of time.
- Legs open in one motion and lock securely and automatically; release at the touch of a finger. No pressure or bumping is required.
- Extra long, Rigid-Type (Non-Folding) leg braces.
- Metal to metal mounting of the leg braces means there are no screws to pull out or work loose. No concentrated pressure on the table top.
- All welded, non-flexing, recessed steel apron, reinforced with "Step-Down" gussets.

TABLE TOPS are smooth and sanitary.

- Available in Six Materials; in a complete range of sizes. Plywood; Duron and Weytex hardboards; Fibersin, Pionite and Formica plastics.

TABLE EDGES are Flush-Type. Available in heavy, extruded Aluminum T-Molding or High-Impact Ethocel Plastic to blend with legs and aprons.

APRONS . . . 16-gauge steel with rounded SAFETY corners.

LEGS . . . 1 inch, 16-gauge furniture-grade tubular steel.

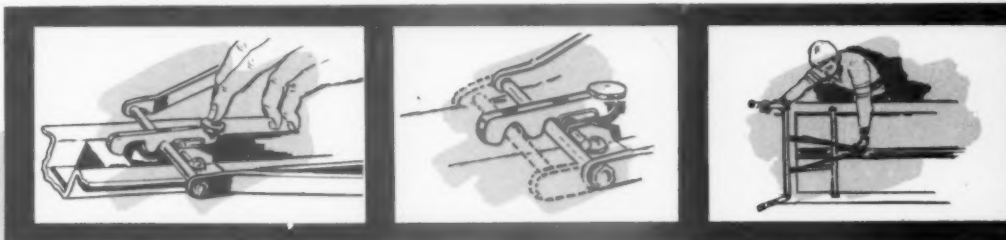
PEDESTAL—V-LEG TABLES — A new concept in folding table beauty and design. Ultra-modern in appearance, and completely functional . . . there is no leg interference at any point, thus allowing perfect seating comfort all around.

All illustrations above are of 8' tables . . . Legs are set in 18" from ends. On 6' tables legs are set in 6" from ends. On 5' tables legs are set in 4" from ends.

exclusive patented finger touch AUTOMATIC LEG LOCKS

D-3/Ba

For built-in safety, durability
and handling ease



The Patented Barricks Automatic Leg Locks with Safety Latch are the only completely automatic Leg Locks. Each is a self-contained unit mounted on the steel monorail. Each lock is precision built and Cadmium plated. Parts are self-compensating against wear and hold legs rigid and firmly in position always. Safety Latch operates on the same principle as the safety latch on automobile door.

Guarantee

Each Barricks Automatic Leg Lock is a self-contained unit Unconditionally Guaranteed. No rivets are used. Lock can be taken apart simply by removing one screw, and re-assembled in a matter of minutes. Should any part wear or prove defective, regardless of time, it will be replaced without charge.

STEEL MONORAIL CONSTRUCTION

The Monorail serves as a guide rail for the leg braces. Leg Braces are extra long (non-folding) rigid type. As the legs are raised, the braces slide back on the monorail until engaged automatically, into the Leg Locks.

Leg Braces are positioned on the monorail at just the proper angle, so that the thrust is forward rather than upward, forming a complete ARCH OF STEEL and reducing to a minimum the stress on the table top . . . assuring new table rigidity after years of use.

SPECIFICATIONS

• **TABLE EDGES** are Flush-Type. Available in heavy, extruded Aluminum T-Molding with ribbed surface or Non-Shrinking, Non-Cracking, High-Impact Ethocel Plastic with flat surface in Ventura Tan to blend with legs and aprons.

TABLE TOP MATERIALS, COLORS AND PATTERNS

- **PLYWOOD**— $\frac{3}{4}$ "—5-ply Fir—Natural Finish.
- **DURON**— $\frac{1}{4}$ " Moisture Treated Ligno Cellulose Hardboard—color—Dark Brown.
- **WEYTEX**— $\frac{1}{4}$ " Moisture Treated Ligno Cellulose Hardboard—color—Blond.
- **PLYWOOD, DURON and WEYTEX** tops are completely sealed and finished with semi-gloss—PLAST-A-LOID Lacquer.
- **FIBERESIN**— $\frac{7}{16}$ "—High pressure solid plastic panel available in Tan Linen or Birch.
- **PIONITE**—High pressure plastic available in Tan Linen or Prima Vera.
- **FORMICA**—High pressure plastic available in Tan Linen or Prima Vera.

The above plastic patterns are carried in stock. Other patterns are available at no extra charge but require additional time for delivery.

• **METAL PARTS**—Table legs, aprons and trucks are finished in Ventura Tan Enamel. Other colors available at slight extra cost. (See Price List.)

• **APRONS**—16-gauge steel with rounded SAFETY corners and reinforced with Step-Down Gussets, aprons are $1\frac{3}{4}$ " wide.

• **LEGS**—1 inch, 16-gauge furniture-grade tubular steel with smooth welds and Drive-In Chrome Plated Glides.

TOP CONSTRUCTION

- **PLYWOOD**—Solid panel of fir plywood.
- **DURON, WEYTEX AND FIBERESIN** panels are securely bonded under high pressure to a prefabricated 5-ply plywood frame reinforced with 5 rigid cross-members.
- **PIONITE AND FORMICA PLASTIC TOPS**—Plastic sheets are laminated to a $\frac{3}{4}$ " plywood core balanced with plastic backing sheet on reverse side, producing a perfectly balanced (sandwich) panel that will not warp or twist.
- **STANDARD HEIGHTS**—Standard Table Heights—30" except 32" square which is 29" high.

BENCHES 18" high.

Lower heights on tables and benches at no additional cost.

SPECIAL SIZES—Tables and Trucks. Prices on request.

See Price List No. SS-115 for products in this catalog



ROUND TABLES

- Series SS-600 Plywood tops. In 4 sizes, 48", 54", 60" and 72" diameters. The edges are protected by $\frac{3}{4}$ " x $\frac{3}{4}$ " x $\frac{1}{8}$ " steel angle rim. Leg hardware is bolted through the top—tops of $\frac{5}{8}$ " plywood.

- Series SS-600 Pionite and Formica plastic tops in 3 sizes, 48", 54" and 60" diameters

ROUND tables are equipped with $2\frac{1}{4}$ " heavy duty Quadra-Formed steel aprons.

LEGS are U-type, reinforced with diagonal steel struts. Legs on 54", 60" and 72" tables are $1\frac{1}{4}$ " diameter, on 48" tables they are 1" diameter

SQUARE TABLES

- Series SSQ-300—In 2 sizes, 32" x 32" x 29" high, and 36" x 36" x 30" high.

TOPS available in same materials and construction as rectangular folding tables.

LEGS are U-type of 1" tubular steel, reinforced with welded tubular steel cross member.

Note: Legs on Barricks Square Tables fold in pairs, not individually, for easier operation and greater rigidity.

BENCHES

- Series SSB-20—In 3 lengths, 60", 72" and 96" long x 12" wide and 18" high TOPS of $\frac{3}{4}$ " fir plywood.

LEGS are U-type of $1\frac{1}{4}$ " tubular steel.

All of the above tables and benches can be furnished with either Flush type extruded Aluminum Ethocel Plastic edges, and are equipped with the monorail and automatic leg locks, the same as rectangular tables.

CHAIR AND TABLE TRUCKS

Chair and Table Trucks are manufactured of roll formed, heavy duty semi-box steel channels with all joints securely welded. Removable handles are of $1\frac{1}{4}$ " tubular steel set in reinforced sockets.



No. SST-100. Universal type for Tables—placed flat, overall truck size: 30" wide x 72" long x 38" high. Will carry 12 to 14 tables up to 30" wide x 96" long.

No. SST-106. Same specifications as No. SST-100 except that truck is 36" wide and will carry tables up to 36" wide x 96" long.

Short handles for understage storage can be supplied at no additional charge.

Table trucks are equipped with FOUR heavy duty 4" rubber cushioned wheels with self lubricating bearing. Front wheels are rigid. Rear wheels are ball bearing swivel type. Tables ride on two plywood battens placed at right angles to the truck frame.

TABLE TRUCKS



No. SST-120 for Tables placed on Edge. Overall Truck size: 20" wide x 72" long x 34" high. Will carry tables from 30" x 60" to 36" x 96".

No. SST-130. Same as No. SST-120 excepting that truck is 30" wide and will carry 50% more tables.



Series No. SST-200, 20" wide x 38" overall height. Will carry chairs from 13" wide to 19" wide.

CHAIR TRUCKS



Series No. SST-200 for Understage Storage, 20" wide x 22" overall height. Frame is rubber covered to prevent damage to chair finish.

Chair trucks are equipped with 4" rubber cushioned wheels and are available in 60", 72", 96", 108" and 120" lengths. The 60", 72" and 96" trucks are equipped with FOUR wheels, 2 rigid and 2 ball bearing swivel type with self lubricating bearings. The 108" and 120" trucks are equipped with SIX wheels, 2 rigid and 4 ball bearing swivel type with self lubricating bearings.

Adjustable Chair Trucks for partial loads. Front handle is adjustable to any desired position on the truck to hold chairs in place.

Table and Chair Trucks can be supplied with all swivel wheels at additional cost. (See Price List.)

Barricks MANUFACTURING COMPANY
FOLDING TABLE DIVISION

134 West 54th Street • Chicago 9

Form 558-50

WRITE FOR CATALOGS OF OTHER BARRICKS PRODUCTS

- Heavy Duty Folding Tables
- Portable Platforms and Chair Risers
- Folding Conference Tables
- Roll-A-Way and In-Wall Type Folding Tables
- Portable Room Dividers

Printed in U.S.A.

D-3/Kr

Presenting

THE ALL NEW

series 100



TUBULAR STEEL FOLDING CHAIR

NOTE

This Brochure represents only one Series Style of folding chairs from the extensive Krueger line. Write for catalog No. 900 showing our complete line of portable seating and other related institutional items.

- Tubular Steel Folding Chairs
- Channel Steel Folding Chairs
- Juvenile Folding Chairs
- Tablar Arm Folding Chairs
- Detachable, Fold-Away Chair Stands
- All-Purpose Folding Tables
- Industrial Stools
- Chair Transport Storage Trucks
- Table Transport Storage Trucks

KRUEGER
METAL PRODUCTS COMPANY
GREEN BAY, WISCONSIN

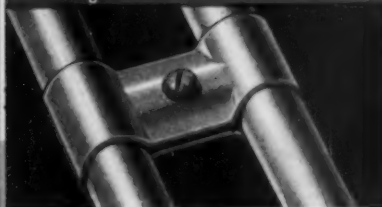
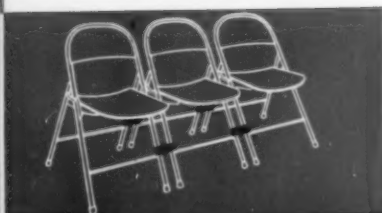
series 100



KRUEGER NO. 101

STEEL SEAT CHAIR—No. 101

Front or back—note the streamlined beauty of the Series 100 chair—the contour shaped, extra large one-piece seat designed for long periods of seating comfort.



Krueger Series 100 chairs may be joined in series by means of ganging clamps, as illustrated. Chairs No. 101 employ frame clamps to front and rear legs and a seat tie-bar for each three chairs so that seats can be raised simultaneously. Series 102 and 103 chairs employ the frame clamps but no seat bar. Seats on these chairs are raised or lowered individually.

TUBULAR STEEL FOLDING

that meet all standard requirements . . .

For size, comfort, appearance and service Krueger's moderately priced Series 100 chairs are of the finest values ever offered. Study the construction details and you'll readily agree their features compare favorably with folding chairs costing considerably more. In addition to the No. 101 all-steel model, the Series 100 boasts a wood seat chair and a new upholstered seat chair. Both are radically new in style and design.

The wood seat chair No. 102 features a large, contour-shaped, molded plywood seat that provides comfort par excellence! Newest addition to the line is the No. 103 upholstered seat chair which features a U. S. KOYLON $\frac{3}{4}$ " foam rubber cushion covered with tough, durable, elastic NAUGAHYDE. Both cushion and covering are contour shaped to the seat and permanently bonded, one to the other. The covering wrap-around is securely anchored within the rolled edge of the seat. Until you actually try these chairs you cannot fully appreciate the relaxing seating comfort they provide.

Frames on all models are made of electrically seamed-welded, heavy gauge steel tubing, designed and constructed to withstand many years of hard usage. The Series 100 is also unusually safe. There are no sharp edges or exposed mechanisms to pinch the occupant or tear clothing and the chairs Y-type design prevents tipping or accidental collapsing.

In addition to the Series 100, Krueger manufactures a complete line of tubular and channel steel folding chairs priced to meet every budget. See our general catalog No. 700.



WOOD SEAT CHAIR—No. 102

Note the two-way contour shape-molded wood veneer seat on the 102—its "bucket" shape from side—its sloping forward side—its sloping forward side—that increases comfort by easing leg strain.

KRUEGER NO. 102

FOLDING CHAIRS

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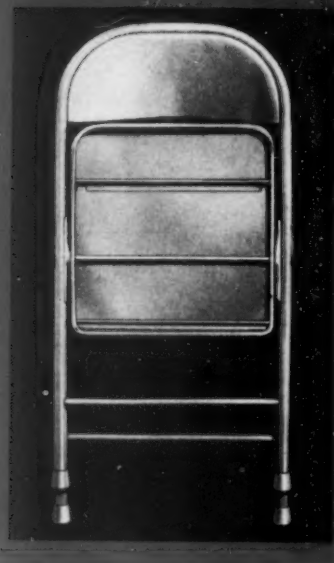


UPHOLSTERED CHAIR—No. 103

Note the thick $\frac{3}{4}$ " U. S. Koylon foam rubber cushion—contour shaped and permanently bonded to the steel seat. The Naugahyde covering is also bonded to the cushion, fully wrapped around and securely fastened within the seat's rolled edge.

KRUEGER NO. 103

The seats on all models of the Series 100 fold flat to the double frame thickness of the chair. Note the built-up vertical seat spacers and frame strengtheners on the front legs—the heavy duty L shaped brace beneath the seat on the 101. These are features seldom found on competitive chairs and simply another reason why the Series 100 is an outstanding value in medium priced portable seating. The Series 100 is exceptionally well balanced. A slight push downward on the backrest and the chair opens—an upward lift and it automatically closes. No other chair operates so simply—so smoothly—so easily!



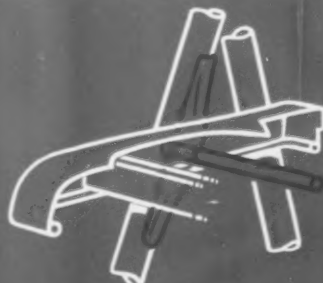
SPECIFICATIONS

FRAME: Heavy 18-gauge, electrically seam-welded $\frac{7}{8}$ " o.d. tubing—reinforced at seat pivot points with 6" built-up vertical frame strengtheners. **STEEL SEAT:** One-piece 20-gauge cold rolled drawn and shaped steel, size $15\frac{1}{2}$ " wide by 16" deep, 17" from floor. **WOOD SEAT:** Contour shape-molded 5-ply Veneer, size $15\frac{1}{2}$ " wide x $16\frac{3}{8}$ " deep, 17" from floor. **UPHOLSTERED SEAT:** Contour shaped foam rubber cushion upholstered with Naugahyde. $15\frac{1}{2}$ " wide by 16" deep, 17" from floor. **BACKREST:** $7\frac{1}{2}$ " deep correctly postured, curved 22-gauge cold rolled steel with full rolled edge. **FEET:** "Swaged-on" steel glides covered with beige colored non-marring, slip-over annular design rubber securely fastened—but replaceable. **COLORS:** Steel frames in Beige, Sauder's Green or Azure Grey synthetic urea baked-on enamel finish. Wood seat, Natural with satin varnish finish. **PACKING:** Four chairs to the carton.

No. 101—Curved steel backrest. One-piece shaped and drawn steel seat.
No. 102—Curved steel backrest. Contour molded 5-ply Veneer wood seat.
No. 103—Curved steel backrest. Contour shaped padded and upholstered seat in Yew Green, Crimson Red or Ginger Brown.



...of the Series 100...
...two strong steel rods which...
...double action hinges...
...seat pivot rod, which is...
...to rear legs, provides seat...
...frame strength and...
...the seat from...
...



Built-up vertical frame strengtheners and seat spacers on front legs for a distance of 6" provides stronger, more rigid bearing points to secure the seat pivot rod. They insure overall frame strength, safeguard against frame spreading and collapsing—greatly increase over-all chair rigidity and sturdiness.



Form-fitting, deep drawn, die-formed backrest panel is securely welded to chair frame. Full curl on bottom edge increases back rigidity and protects against injury and clothing tears. $7\frac{1}{2}$ " deep, it provides more back support than most folding chairs and gives the occupant the utmost in portable seating comfort.



Double action hinges are perfectly synchronized with folding action of seat pivot rods to provide the simplest single action folding operation in portable seating. Hinges are firmly secured rubber bumpers with steel insert at top of rear legs, assure solid non-marring contact with front frame legs.

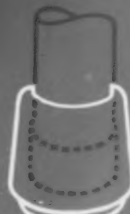
LOOK AT THESE CONSTRUCTION DETAILS



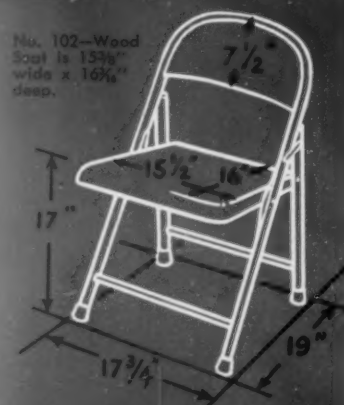
...of the largest, most comfort-
...offered. It features fully
...and a contour shape that
...leg strain. New, L-shaped,
...cold rolled steel bridging se-
...underneath forward section,
...bottom edge on all sides
...seat strength and shape.



Front and rear leg braces of 16-gauge cold rolled electrically welded steel tubing add strength and rigidity to the frame. Two seats pivot rods of $\frac{5}{16}$ " solid carbon steel also serve as braces for added frame strength and permanent security. Few chairs have the solid rigidity of Krueger chairs.



Non-marring beige rubber feet of new annular design for a more secure floor contact are standard on the Series 100. These are tightly secured over steel dome glider feet which are "swaged" onto the leg proper. Rubber feet will not loosen under usage but are easily replaceable when needed.



No. 102—Wood Seat
Seat is $15\frac{1}{2}$ " wide x $16\frac{3}{8}$ " deep.

ALL STEEL *Chair Trucks*

For quick and easy storage of folding chairs, Krueger presents these four popular models. Newly designed, they incorporate many advanced engineering developments, one of which combines lightness of weight for easier mobility with heavy-duty durability for hard usage. They also feature a new chan-angle frame that permits fast, easy loading with chairs securely positioned in a channel track to prevent them from falling through. When empty, trucks can be stacked one upon the other and stored in a small space by simply removing the demountable ends and positioning wheels of each top truck in the chan-angle of the truck below. All Krueger trucks are equipped with sturdy, easy operating casters having 4" diameter wheels with roller bearings and rubber tires. The standard caster arrangement — two swivel type and two fixed — is recommended for easiest handling, but trucks will be furnished if desired with all swivel type casters, at no extra cost.

No. KV25 Heavy duty chan-angle steel truck for tubular or channel steel folding chairs. Chairs stack in vertical position. Short overall length is especially convenient for handling in close quarters, turning corners in narrow hallways, etc.

FRAME: 1½"x½"x4½" 16-gauge chan-angle steel, with all joints patched and electrically welded. Removable ¾" heavy carbon steel tubular end arms permit multiple stacking of empty trucks. Center cross braces.

CASTERS: Located 7" toward middle from ends of truck.

SIZE: Height 35", length 56", width 20½", weight 35 lbs. Holds 25 "Y" type tubular or 35 "X" type channel chairs.

If you desire an economical under stage truck order the KV series with end posts only 22" high. Chairs can be placed horizontally across the truck to provide a low cost storage unit.

No. KV25

Interval channel stops to prevent chairs from sliding are standard on all Krueger trucks. A more secure and complete stop is effected by means of our "moveable end-post clamps" which permit one entire end bar to be firmly positioned at any place on the chan-angle frame. Available at slight additional cost. Please specify if latter is desired.

No. KV30

No. KV35 (Not shown) Same as KV25 except:—

FRAME: Has 2 channel steel middle cross braces for rigidity, and 2 sets of leg stops to permit partial loads of chairs.

CASTERS: Located 12" toward middle, from ends of truck.

SIZE: Height 35", length 80", width 20½", weight 45 lbs. Holds 35 "Y" type tubular or 45 "X" type channel chairs.

No. KV50 Same as KV35 except:—

CASTERS: Located 18" toward middle from ends of truck.

SIZE: Height 35", length 106", width 30½", 68 lbs. Holds 50 "Y" type tubular chairs or 75 "X" type channel chairs.

Above trucks handle chairs with inside leg dimensions as small as 13½" and outside leg dimensions up to 18½". All trucks in KV series are individually cartoned and packed.

No. KN50 Heavy duty chan-angle steel truck for tubular or channel steel folding chairs. Chairs are stored in horizontal position on their sides alternating top and bottom on each side. Available with or without side rails.

FRAME: Strongly constructed of 1½"x½"x4½" 16-gauge chan-angle main side members electrically welded to a 4½"x1½" angle steel end members, reinforced by 7"x½" channel steel cross members. Removable ¾" heavy carbon steel tubular end arms and side rails permit multiple stacking of empty trucks.

CASTERS: Located 18" towards center from corners.

SIZE: Height 22½", length 106", width 43½", 94 lbs. Holds 50 tubular chairs or 75 channel steel chairs.

FINISH: All trucks are finished in attractive, neutral beige. Special sizes and construction to meet special customer needs are available at slightly higher prices.

Additional new trucks have been added to the line. See our new general catalog No. 700 for details.

All Krueger chair trucks stack one on the other for storage in small space.

KRUEGER
METAL PRODUCTS • GREEN BAY • WISCONSIN

CLAPPER'S MANUFACTURING

Box 8 • Phone MErcury 4-7081 • Meyersdale, Penna.

Versatile • Functional • Economical • Attractive CLAPPER'S FOLDING TABLES



- Self-Edged Formica
- Full 30" High
- Heavy Duty Construction
- Widest Color Selection Available
- Precision Fitted Frames

... enduring, sanitary convenience for bright, cheerful school installations ...

Now, more than ever ... Clapper's Tables combine top-quality with economy for long, hard service in school cafeterias, banquet rooms, snack bars, etc. Commercial type, formica tops ... flush mounted, precision fitted frames ... heavy duty, enameled tubular steel legs ... just a few of the reasons why Clapper's Tables brighten the appearance of any school installation. They're easy to keep clean and sanitary too ... assure quick fold-up convenience for extra space needs.

Top frames of Clapper's Tables are constructed of heavy, flush mounted, fir beams to provide the most rugged, school folding tables available ... permit butting tables end to end. Only 2 3/8" thick when folded with heavy t-nosed anodized aluminum molding that assures permanent, corrosion free protection of the edges. The 7/8" tubular steel tubing legs are electrically welded into one compact unit ... have U-bolt

mountings to eliminate wobble during long, hard use. 5/16" steel leg braces are permanently welded to pedestal. Special, foolproof locking device provides quick, positive locking in folded or upright position. Feet are rubber tipped—chromium floor glides available. Tempered Masonite or Gum Plywood tops also available.

Other CLAPPER PRODUCTS FOR School And Institutional Use



Self-Edged Formica
TABLE and BENCH COMBINATION

Rugged, attractive Table and Bench Combinations with commercial grade formica bonded to tops and edges for clean, scratch-free surfaces. Chrome or plastic edging available. Grade AA Douglas Fir framing ... all joints pinned, mortised and glued. Satin, black lacquered steel legs are standard ... other finishes available. 8, 10, 12, 14 and 16 foot lengths by 30 or 36 inches wide. Benches are 15 in. high by 10 in. wide.



TABLE and CHAIR TRUCKS

Extra heavy duty construction for years of long, hard service. Heavy, angle iron frames, removable steel handles and 4" dia. ball bearing casters. Hard rubber tread surfaces—grey enamel finish. Swivel casters available.

Multi-Purpose FORMICA TOP TABLES

Damage and heat-resistant Formica Tables in rectangular, round or half-round shapes for practically any school requirement ... classrooms, libraries, conference rooms, kindergartens, etc.



Trapezoid Table—60" x 30" x 30" x 30" shown. Any style leg or pedestal may be supplied. Send for details on shapes and sizes for immediate delivery.

Write for FREE Catalogue or ask for the Clapper Distributor nearest you.

**CLAPPER'S
MANUFACTURING**

Meyersdale, Penna.

"Clapper's Equipment Distributed Nationally"

DURHAM MANUFACTURING CORP.

Muncie, Ind.

DURHAM Folding Metal Chairs

Superior construction features, handsome appearance, a wide range of styles and prices have won increasing preference for DURHAM folding metal chairs. Millions in service in all types of public and semi-public buildings demonstrate the comfort, safety and convenience of DURHAM designs. Choice of channel or tubular steel frames. Wood, steel, or padded, upholstered seats. Posture-curved metal, contoured wire, or padded upholstered backs. Be sure of the best—buy DURHAM!



**No. 875 All Steel,
Tubular Frame Chair. Extra
Wide, Extra Deep Seat.**

No. 605R

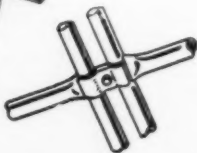
No. 251



Juvenile



CLAMPS for ganging tubular or channel steel chairs attach with wing nuts.



No. 875TA FOLDING TABLET ARMCHAIR

Tablet arm is 24" long with 12" writing surface. Has 5-ply hardwood core with Northern Maple back and melamine-surfaced high pressure laminate face. Resistant to marring, scuffing, discoloration. Folds flat with chair.



Wrap rack is added convenience, especially where space in cloak-rooms or lockers is at a premium.



No. 7001 KNEELER FITS DURHAM TUBULAR STEEL CHAIRS

Tilts up under seat of chair to clear aisle; folds compactly in storage. Foam rubber, firm density, 1/2" thick, covered in chocolate brown vinyl leatherette. Beige or taupe frames, baked enamel finish.



No. 873

No. 877



No. 868



TESTED
AND APPROVED
BY LEADING
INSTITUTIONS FOR
OVER 50 YEARS

A Style for every use . . . a Price for every budget

Also modern all-steel shelf units for books and supplies, easily moved where needed; folding tables; other items for institutional use. DURHAM manufactures America's most complete line of folding and informal furniture. Write Dept. A-58 today for catalog showing line, and giving specifications, ordering information.



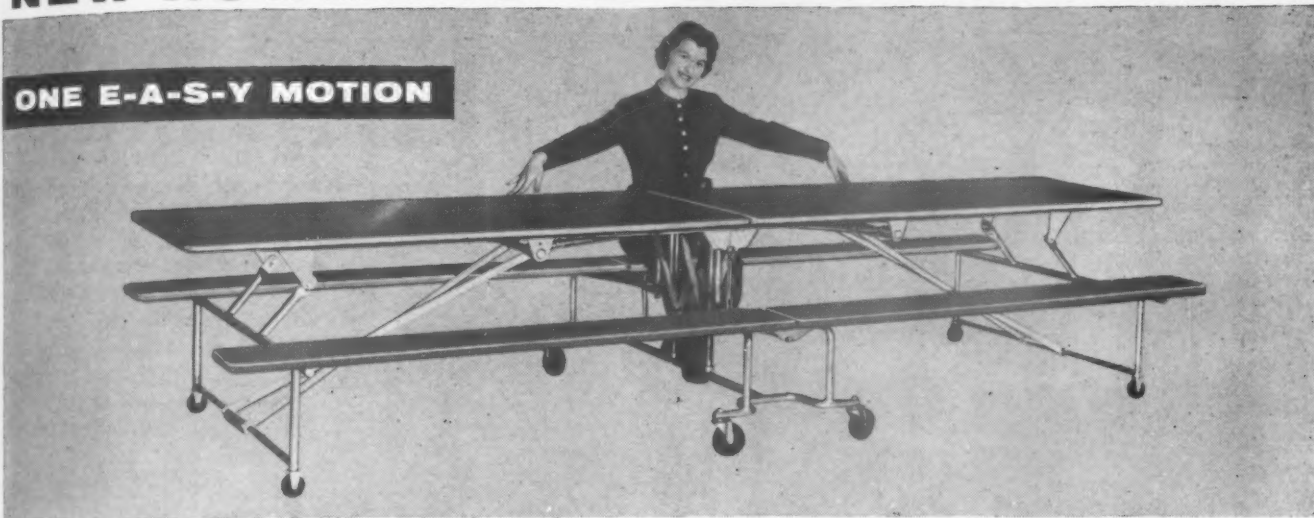
DURHAM

MANUFACTURING CORP., MUNCIE, IND.

HOWE FOLDING FURNITURE, INC.

1 Park Avenue, New York 16, N. Y.

NEW HOWMATIC "12" BENCH AND TABLE



OPENS IN 3 SECONDS!



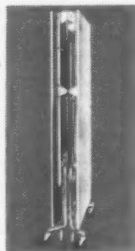
FOLDS IN 3 SECONDS!

The new HOWMATIC "12"* bench and table opens or folds in one, easy, *automatic* action! Opened, a foolproof safety lock grips this 12 ft. unit automatically. Folded, it remains securely locked, the release bar at adult height!

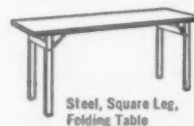
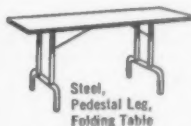
The HOWMATIC is compact and maneuverable even in close quarters. Folded, 4, large swivel casters make the unit easy to move in all directions; opened, 4 fixed casters on bench legs secure the unit firmly.

All HOWMATIC surfaces are exposed for easy cleaning, even when the unit is folded. This exclusive feature cuts cleaning time up to 50%!

New, 12 ft., bench-less HOWMATIC "T". Exclusive Suspension Action makes opening or closing this unit almost effortless. Center, castored legs touch the floor at all times; four corner legs touch the floor only when the unit is fully opened, anchoring the HOWMATIC "T" firmly in place.



FREE! Get complete information on the BIG 3 in school mobile units: 1-the new HOWMATIC "12" Bench and Table. 2-the new, bench-less HOWMATIC "T". 3-the 6 ft. HOWE Bench and Table. For free, illustrated literature containing dimensions and structural information, write for HOWE folders today.



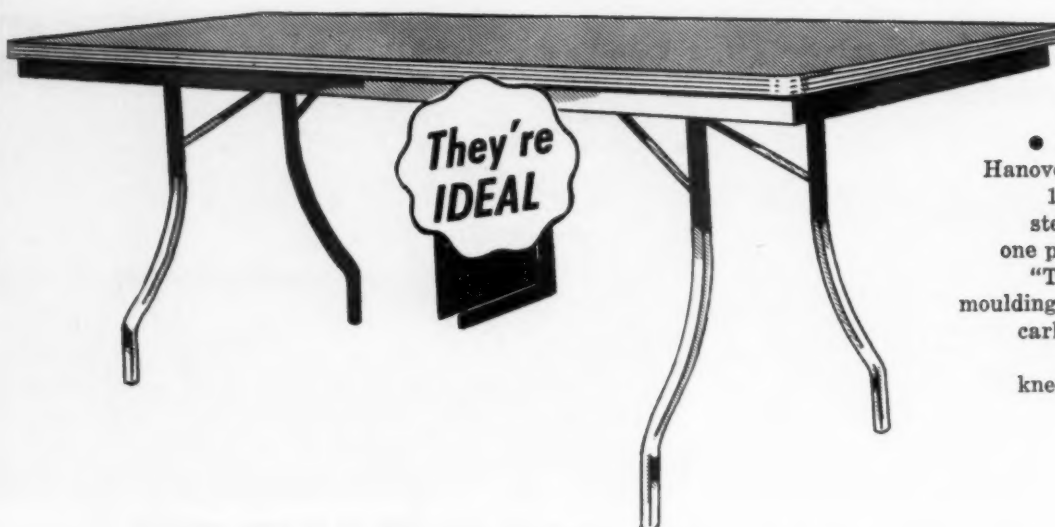
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HOWE FOLDING FURNITURE, INC., 1 Park Avenue, New York 16, N. Y

AMERICAN SCHOOL AND UNIVERSITY—1958-59

METWOOD MFG. CO.

Hanover, Pa.

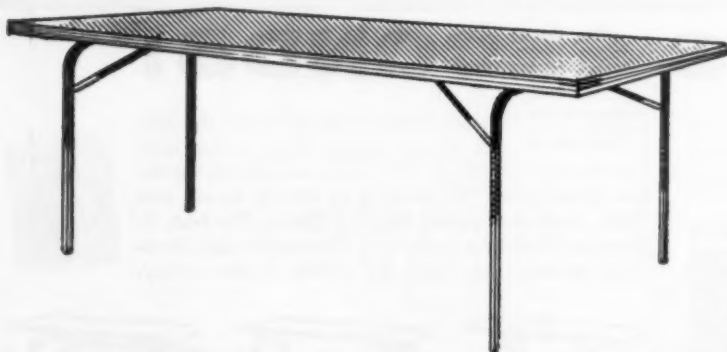
MANUFACTURERS OF METWOOD-HANOVER FOLDING TABLES, TABLE TRUCKS
AND STAGE UNITS WITH Exclusive TRI-BALANCE STRENGTH



● All standard line Metwood-Hanover tables are equipped with 1 3/4" or wider 18-gauge C.R. steel aprons, full welded into one piece. Tops are banded with "T" type extruded aluminum moulding. Legs are of 1" O.D. high carbon steel tubing, with .076 wall, and shaped to assure knee-free seating at both ends and sides of tables.

model	top surface and frame	finish
A-1	1/16" high pressure laminated plastic on 5/8" Douglas fir plywood	choice of patterns and colors
B-1	1/4" Birch plywood on 5/8" Douglas fir plywood	sealer and clear lacquer
B-1M	Birch Marlite (plastic on masonite) on 5/8" Douglas fir plywood	
M-1	1/8" tempered Duolux masonite on 5/8" Douglas fir plywood	oil wax stain
P-1	5/8" Douglas fir plywood	oil wax stain or clear lacquer

lengths: 96", 72", 60", 48", 36"
widths: Standard: 36", 30". Other widths also available.
heights: 30" or as ordered

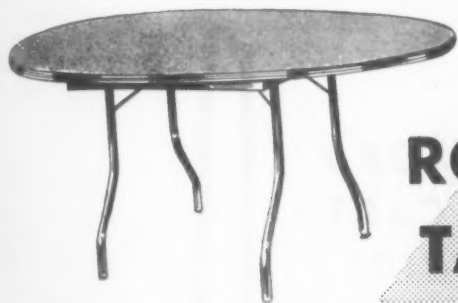


BUDGET LINE FOLDING TABLE

A lower cost, quality table without sacrifice of design strength or craftsmanship. For rooms where table appearance is not the supreme standard. Metwood craftsmanship and unsurpassed locking-device.

PS	5/8" Douglas fir plywood	oil wax stain	lengths: 96", 72"
PSM	1/8" tempered Duolux Masonite on 5/8" Douglas fir plywood	oil wax stain	widths: 36", 30" height: 30" or as ordered

METWOOD MFG. CO.



ROUND TABLES

model	top surface and frame	finish	diameters
RA-1	1/16" high pressure plastic on 5/8" Douglas fir plywood	Choice of patterns and colors	48", 60"
RM-1	1/8" Duolux Masonite on 5/8" Douglas fir plywood.	oil wax stain	48", 60"
RP-1	5/8" Douglas fir plywood	oil wax stain or clear lacquer	48", 60", 72"
RPR	same as RP-1 but with no moulding		

heights: 30" or as ordered



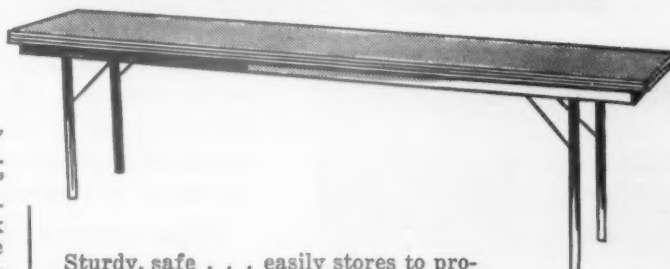
CARD TABLES

For heavy duty, frequent use . . . sturdy economical . . . outwear average card tables

many times over. Full 2 1/4" steel channel apron and "T"-type aluminum moulding. "U" type legs of 1" O.D. high carbon steel tubing. 30" x 30" x 27" high. Made with the same precision features as Standard Line Folding Tables.

model	top surface and frame
CM-1	1/8" Duolux Masonite on 5/8" Douglas fir plywood
CA-1	1/16" high pressure plastic laminate (NEMA Standard) on 5/8" Douglas fir plywood

FOLDING BENCHES



Sturdy, safe . . . easily stores to provide fuller flexibility in school rooms.

Tops are 1/8" Duolux Masonite on 5/8" Douglas fir plywood, having a full 1 1/4" steel channel apron, and 1" O.D. high carbon steel. Legs fitted with standard Metwood-Hanover lock.

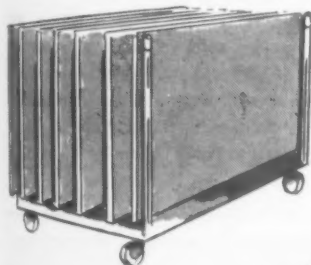


TABLE TRUCKS

Available for either flat or edge stacking and also for round tables and stage units.

Equipped with 4 swivel castors giving free movement in any direction. Frame is 1/2" x 2" x 2" steel angle. Handles 1" O.D. high carbon steel tubing.

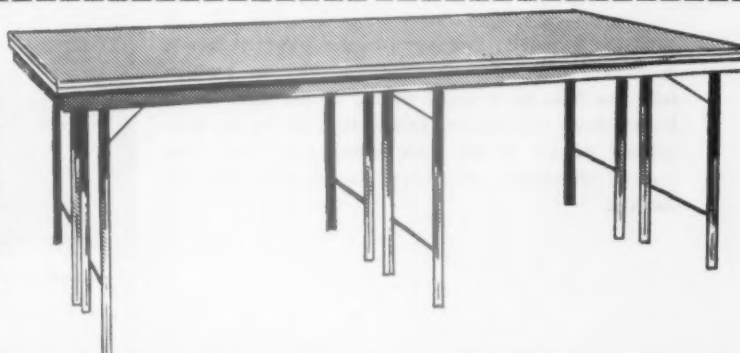


TENNIS TABLES

One or two piece, with full steel channel aprons and legs designed to lock same as Folding Tables. Tops sealed, sanded and finished with best dark green lacquer, with white lacquer lines. Top construction in 5/8" Douglas fir plywood or 1/8" Duolux Masonite on 5/8" Douglas fir plywood.

STAGE UNITS

Available in all sizes for dramatic, chorus, orchestra and general usage. Height for various needs. Easily and quickly assembled and disassembled . . . stores in minimum space. Can easily be set up so each level is at different height . . . affording two and three tiered stage effect.



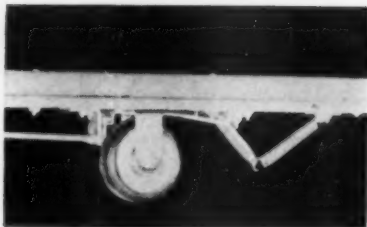
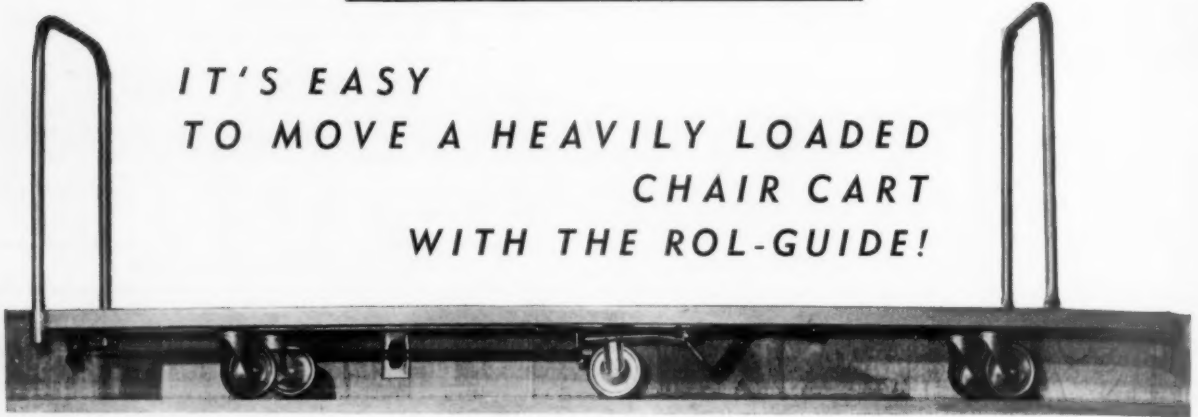
Write for Specification Sheets and Customers Near You—without obligation

AMERICAN SCHOOL AND UNIVERSITY—1958-59

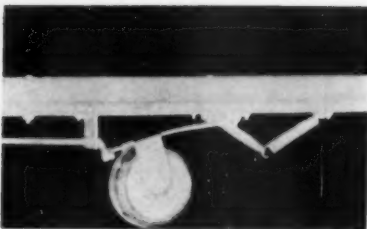
ROL-AWAY TRUCK MFG. CO., INC.

6143 S.E. Foster Road, Portland 6, Oregon

IT'S EASY
TO MOVE A HEAVILY LOADED
CHAIR CART
WITH THE ROL-GUIDE!



Rol-Guide in
Retracted Position



Rol-Guide Wheel in
Control Position

The Rol-Guide is a rigid, retractable extra wheel mounted under the center of the chair cart. With it, the operator can move a heavily loaded cart without effort, just where he wants it, whether it is forward or backward, in a completely controlled line of travel. There is no necessity of jockeying either sidewise, up against a wall, or around sharp corners.

When retracted, the Rol-Guide wheel is completely off the floor and the cart maneuvers on its four corner swivel wheels in the regular way. However, a flip of a small foot lever locks the Rol-Guide into position and the fifth wheel is held in tight contact with the floor by spring tension. The cart then maneuvers like a center diamond mounted cart, yet has the stability of a four corner mounted cart.

SPECIFICATIONS—Model CC-RG-96

Lengths	72", 96", 120", 144"
Width overall	20"
Height overall	33 3/4"
Height from base	26 1/2"
Clearance between floor and base	6"

Adjustable handles (1) of 1" steel tubing. All welded 12 gauge cold rolled steel construction. Casters (4) 5" diameter double row ball-bearing wheels, with neoprene tires and tread guards, plus Rol-Guide center wheel. Finish Green Hammertone Paint. Capacity 45 chairs.

ROL-AWAY STOCK PICKERS

With the Step-Lock, the spring-loaded safety ladder is depressed and locked into positive bearing position with the floor by a pedal on the bottom step. When locked down, the user can safely stand on the top deck without danger of the truck rolling under him. All-welded aluminum construction for strength and durability.



Three shelf models
S-4-1 and S-4-1W.
Model S-4-1W is same as S-4-1 except
shelves are of 1/2" aluminum painted
plywood fixed in aluminum angle frames.



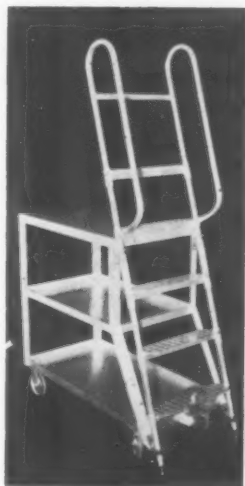
Two shelf models
S-3-1 and S-3-1W
With exception of plywood decking on
S-3-1W, these two models are the same.
DT-1—Same as above but with 8 1/4"
deep tray on top shelf.

ROL-AWAY TRUCK MFG. CO., INC.

OVER 70 DIFFERENT SPECIAL-PURPOSE HAND TRUCKS

STOCK PICKERS

These ladder trucks are ideal for working on high stockroom shelves and for maintenance jobs. Safety is of first importance whenever personnel works off the ground. All Rol-Away Ladder Trucks have been fully approved by the Oregon State Industrial Accident Commission and leading Insurance Company Safety Engineers.



**Extended-Ladder
Model S-5 Series**

The higher Five-Step Ladder makes these 2 and 3 shelf units ideal for high stockroom shelves. Working heights up to 10' or more.



**High-Ladder Stock Picker
Model S-6 Series**

The chassis on the S-6 Series is longer and wider, giving greater carrying capacity, plus a 4-step ladder. Working access to ceiling heights of 12'. Capacity 500 lbs.



**Maintenance Stock-Picker Combination
Model S-7 Series**

This series offers a higher safety ladder on 3- and 2-shelf trucks. Safe, comfortable access to heights of 12' and more. Capacity 500 lbs. This model can be furnished with either permanent or removable shelves.

THE LADDER TANK for Cleaning and Washing



Model S-7T

Twin tanks, side-by-side are an integral part of the truck and each is fitted with standard bottom-drain cocks. The five-step high-ladder gives easy working reach to heights above the floor of 12' and more.

Send for Illustrated Catalog of complete Rol-Away line. Address request to Rol-Away Truck Mfg. Co., 6143 Foster Road, Portland 6, Oregon

HIGH ACCESS Maintenance Truck

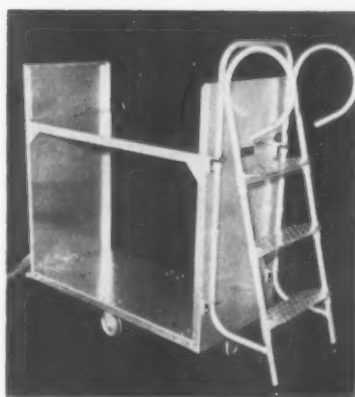
Ladder extensions locked in place by double, independent locks. One leg adjustable to compensate for uneven floors. Serves all maintenance requirements from 6'6" to 16' high. Of all-welded steel and aluminum construction. Neoprene-tired casters.

Model HL-1



UTILITY TRUCK Model UL-1

These sturdy, attractive trucks will stand up under the hardest use and give more economical and efficient handling for open stocks, packaged goods, and small parts.



Safety Tested
Quality Equipment
Promotes Safety

MIDWEST FOLDING PRODUCTS

Dept. 670, Roselle, Illinois



FOLDING TABLES

PORTABLE PLATFORMS • TABLE AND CHAIR CADDIES

FAMOUS PEDESTAL LINE

- ★ Easy Folding
- ★ Compact Storage
- ★ Du-Honey 20 Safety Lock
- ★ Smooth Sanitary Tops
- ★ Plastic Edging
- ★ Double Bracing

Midwest Pedestal Tables feature the exclusive "Du-Honey 20" lock that secures the legs in both the folded and the extended positions automatically. "Off-center" leg design gives extra leg room at each end. Round corners add safety and style. Tops laminated to sturdy plywood frame by special hot press glue process. Reinforced recessed steel apron for perfect rigidity. Choice of natural or walnut finished plywood; brown or blond Mid-Tex (tempered hardboard); plastic or linoleum tops. Sizes 30x96, 30x72, 30x60, 30x48, 36x96, 36x72 in. Also 18 in. and 24 in. widths. Standard height 29½ in. Other heights of 22, 24, 26 or 28 in. optional.



10 year guarantee on all Midwest Folding Legs

MIDWEST PORTABLE FOLDING STAGE

Fold it . . . !
Move it . . . !
Store it . . . !



Here's a new self-contained portable folding stage that's ideal for your school or church. Makes a strong, sturdy spacious stage 8 ft. x 11'-8". Can be folded in a few seconds and moved from room to room or stored in a small space. Size folded is 8 ft. x 19" x 39". Equipped with easy rolling swivel casters with hard rubber tires, and ball bearing swivels. Patented safety locks. Extra heavy center supports. Welded construction. No loose parts . . . no tools required to set it up. Choice of 18" or 24" heights.

SIMPLIFY MOVING AND STORAGE WITH THESE NEW MIDWEST CHAIR AND TABLE CADDIES

Midwest offers a complete line of chair and table caddies to solve your handling problems. Chair caddies designed to handle all types of folding chairs. Adjustable models available for handling partial loads; understage models with coupling devices for utilizing unused storage space; and double width models for added capacity.



Table caddies hold any size folding table. Special "on-end" styles for carrying tables on end through doorways.

All frames of rolled steel, multi-formed and built for rugged service. Smooth action rubber caster wheels. Chair caddies in lengths of 60" to 132". Table caddies 72" and 96" long.

MONOBILT FOLDING TABLE

A sturdy well-built folding table designed to fit the modest budget. Heavy ash molding, improved underframing with mortise and glue construction. Du-Honey 20 automatic leg lock for positive safety, either in the open or closed position. Tubular steel legs with mar-proof glides. Choice of Mid-Tex (tempered hardboard), plywood or linoleum tops. Easy compact folding. Sizes 30x96, 30x72, 30x60, 30x48, 36x96, and 36x72 in. Also 18" and 24" widths.



CATERER TABLE

A new, heavy duty folding table designed to meet the rugged requirements of restaurants, hotels, clubs, etc. 13/16" plywood top. Bolt thru construction. Automatic leg lock. Sizes 30x96, 30x72, 36x96 and 36x72 in.



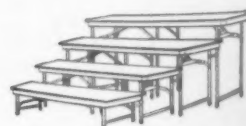
ROUND TABLES SQUARE TABLES

A complete selection of round and square tables built to the same high quality standards as other Midwest tables. Choice of tops are available in various sizes.



MIDWEST FOLDING PLATFORMS

A heavy duty folding platform for auditorium use. Size 4 ft. x 8 ft. 3/4" plywood top. Du-Honey 20 automatic leg locks. Folds compactly. Available in 5 different heights.



MIDWEST CHORAL AND BAND STANDS

Folding portable choral and band stands available in 18" or 36" widths, straight end or tapered end style, and in a range of 4 different heights.

MITCHELL MANUFACTURING CO.

D 437

2772 S. 34th Street, Milwaukee 46, Wisconsin

for CHANGING ROOM USES

GENUINE

Mitchell
FOLD-O-LEG
tables

LEGS FOLD
UNDER
FOR STORAGE

GENUINE MITCHELL FOLD-O-LEG TABLES

THE STRONGEST, HANDIEST, FOLDING TABLES MADE!

CONSTRUCTION FEATURES: Smooth, clean, sanitary tops unmarred by rivets, nails or screws. Tops completely reinforced by $\frac{3}{4}$ " plywood underframe to eliminate weakness and flexibility. Strong welded steel channel apron reinforces top and underframe for greater rigidity. Table top edges protected with Beige colored plastic moulding which absorbs shocks without denting or splintering. New combination LEVEL-STACK corner plate and rounded corner keeps tables level and steady when stacked by preventing corners from meshing. Rounded corner adds safety. Tubular Steel Leg assemblies thoroughly welded into one strong unit. Proper pedestal arch width prevents tipping. Legs equipped with steel floor glides. All metal parts finished in a pleasing Bryce Beige colored enamel. Extra-heavy steel patented jackknife folding brace eliminates rattle, end play and wobble. Simple strong compression lock easily operated with one hand. ♦

All tables made 29" high for adult use. 22", 24" or 27" heights can be furnished for children or older youth groups.

Exclusive Patented Features give **MORE:**
Seating Capacity, Leg Comfort, Strength, Rigidity, Long Life and Service . . .

STANDARD FOLD-O-LEG TABLES

Masonite Presdwood Tops	Fir Plywood Tops	Resilyte Tops	Formica Tops	Linoleum Tops
Model No.	Model No.	Model No.	Model No.	Model No.
96" L. x 30" W. VM-1	F-1	R-1	P-1	L-1
72" L. x 30" W. VM-3	F-3	R-3	P-3	L-3
60" L. x 30" W. VM-4	F-4	R-4	P-4	L-4
96" L. x 36" W. VM-9	F-9	R-9	P-9	L-9
72" L. x 36" W. VM-11	F-11	R-11	P-11	L-11
48" L. x 30" W. VM-19	F-19	R-19	P-19	L-19

SPECIAL FOLD-O-LEG TABLES

36" L. x 36" W. VM-20	F-20	R-20	P-20	L-20
48" L. x 30" W. VM-21	F-21	R-21	P-21	L-21
36" L. x 30" W. VM-23	F-23	R-23	P-23	L-23

ABOVE SPECIAL TABLES MADE WITH "U" TYPE LEGS

"VM" models have the NEW "QUALITE" Light-tone Masonite Tops; these light-finished tops are most popular for school use.

KINDERGARTEN TABLES

Made in the same top sizes as standard FOLD-O-LEG Tables but in 22" heights, also in 24" and 27" heights for bigger children. Leg extensions easily convert these tables to regular 29" height for adult use.

ROUND FOLD-O-LEG TABLES

Equipped with special "U" type legs with individual Jackknife folding braces. Choice of top materials applied to a solid $\frac{3}{4}$ " plywood panel.



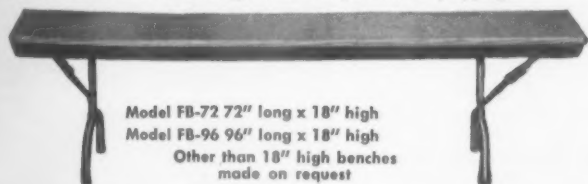
FIR PLYWOOD TOPS
MODEL NO.

SIZE
48" round x 29" high
60" round x 29" high

RF-121
RF-131

FOLD-O-LEG BENCHES FOR CONVENIENCE

Tops of $\frac{3}{4}$ " five-ply fir panels finished with two coats of varnish. Edges protected with plastic moulding to match tables. Steel channel aprons on long sides. New combination LEVEL-STACK corner plate. Benches 96 inches long have extra reinforcement to prevent sagging. Tubular steel welded legs. Wide arch prevents easy tipping.



Model FB-72 72" long x 18" high
Model FB-96 96" long x 18" high
Other than 18" high benches
made on request

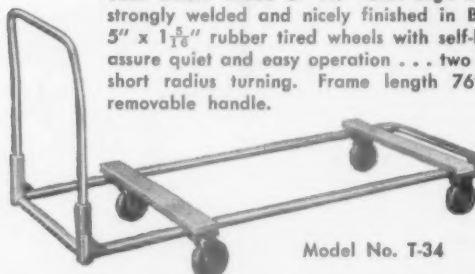
LEG EXTENSIONS

Provide additional uses for FOLD-O-LEG TABLES. Kindergarten tables can be raised to regular 29" height, regular height tables can be extended to counter height for crafts or exhibit purposes. Patented expansion lock gives strong, secure connection. Easily removed.

Made in sizes
from 2 to 12"

TABLE TRUCK SAVES TIME AND LABOR

Easily carries 12 standard folding tables stacked on top of each other. Made of $1\frac{1}{2}$ " O.D. high carbon steel tubing, strongly welded and nicely finished in Bryce Beige enamel. $5\frac{1}{2}$ " x $1\frac{1}{8}$ " rubber tired wheels with self-lubricating bearings assure quiet and easy operation . . . two wheels swiveled for short radius turning. Frame length 76", width 26" with removable handle.



Model No. T-34

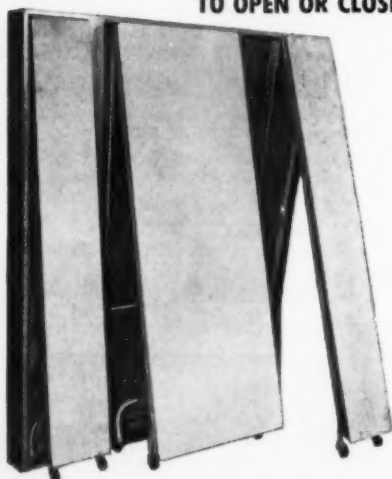
SEE
NEXT
2 PAGES

MITCHELL MANUFACTURING CO.

WALL CABINET STORED PORTABLE FOLDING TABLES & BENCHES



EASY AND SAFE
TO OPEN OR CLOSE



USE ATTACHED
OR DETACHED
FROM CABINET

Mitchell

FOLD-O-LEG

Doubler



DOUBLE - USE

Detached from cabinet, rolled anywhere.
Left attached, quick use and removal.

DOUBLE - QUICK

Change room use in minutes.

DOUBLE - DUTY

Cafeteria, banquet, classroom, meeting.

DOUBLE - CAPACITY

Seats 20 children or 18 adults.

DOUBLE-SAFE, SANITARY

Folding tops have center gap to prevent hand injury.
Easier to keep clean.

DOUBLE - DURABLE

Built better, last longer.

Mitchell's advanced design and construction features assure utmost safety, dependable, easy operation, long trouble-free service with minimum upkeep. DOUBLER TABLES and BENCHES are made with tops of Linoleum, Resilyte or Formica plastics in many patterns and colors. All tops have round corners with all edges protected with a tough, tight-fitting, dent-resistant Beige colored plastic moulding. Tops are reinforced with full-length steel channel aprons for maximum rigidity. Tops rest directly on the full-width upper cross-bar of the tubular steel leg assemblies for added support and load capacity. Easy-to-operate, keyless locks hold units securely in the wall cabinet. Cabinet is all steel with enclosed back. All metal parts including cabinet completely finished with long-wearing Light Bryce Beige colored enamel.

Wall cabinet, outside dimensions	7'2" high, 5'4" wide, 6½" deep
Doubler Table	13'10" long, 30" wide, 29" high
Doubler Benches	13'10" long, 12" wide, 18" high

Cabinet with table only or double depth cabinet with two tables and four benches or other table and bench heights for recessed-in-wall or against-wall installation.

SIMPLE, STRONG EASY FOLDING

Nothing complicated about MITCHELL'S Folding Mechanism, it has fewer parts to interfere with comfortable seating or to get out of order . . . MITCHELL'S construction gives greater rigidity in use plus fool-proof, easy operation.



PATS. PEND.

MITCHELL MANUFACTURING CO.

Mitchell

PORTABLE
FOLDING STANDS

EASY TO SET-UP
1, 2, 3 or MORE LEVELS

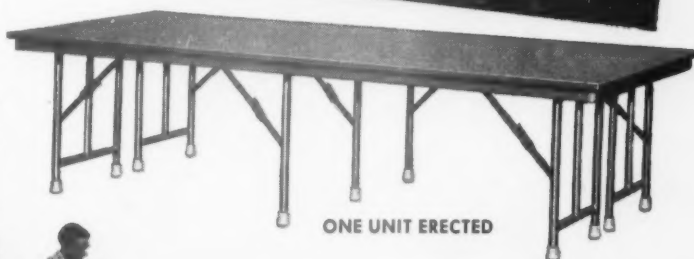
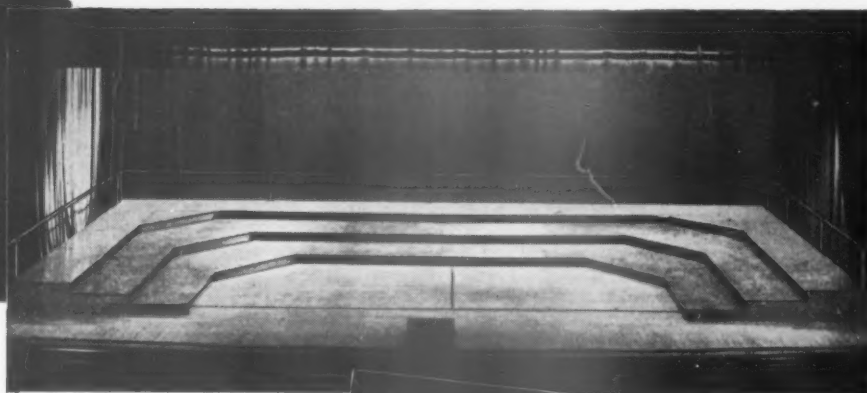
for BAND, ORCHESTRA, CHORAL and DRAMATIC GROUPS

Sturdy, safe, easy to handle units with strong tubular steel folding legs, $\frac{3}{4}$ " 5 ply Fir plywood tops reinforced with a steel channel apron for greater strength and rigidity. Standard top size of one unit is 4' x 8'. Units are made in heights starting with 8" and increasing by 8' rises to form step-like arrangements as shown in the photographs.

A complete Band Stand for 120 piece band can be stacked and stored in a space 4' wide, 8' long and 6' high.

All genuine Mitchell products have: extra strong welded tubular steel leg assemblies and simple foolproof folding features.

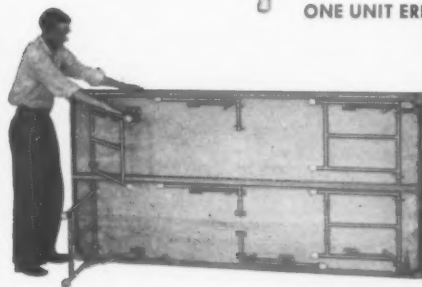
They last longer because they are built stronger.



ONE UNIT ERECTED

LEGS FOLD UNDER FOR EASY AND COMPACT STORAGE

Bottom view shows how easily these units can be handled by one person. Legs fold flat against underside of top and do not extend below apron. This allows flat stacking one on top of the other for minimum storage.

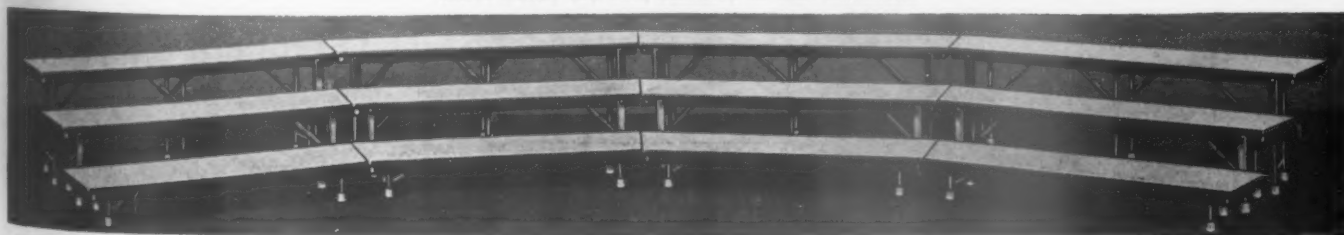


MITCHELL ONE-LEVEL STANDS

Photograph above shows a one-level platform set-up in a gymnasium. This type of installation has great flexibility of arrangement because the stand—8' x 4' units can be set-up as a complete platform to accommodate groups or a few units used for speakers platforms, runways etc. The portability of these units and the ease with which they can be set-up or removed and stored in minimum space, has made them most popular and most practical for school, church, hotel, lodge and many public and private uses.

MITCHELL Portable CHORAL STANDS

The complete Choral Stand for a standing group, as shown below, is composed of four sections, like the one shown to the right. Each section is three elevations high and of tapered design to produce the semi-circular stepped-up arrangement so popular for Choral Group performances. These units for standing groups have 18" wide tops. Each elevation has a rise of 8" above the other, the first being 8" above the floor. Units and sections lock and clamp together for safety and extra rigidity. Units for seated groups are made with 36" wide tops. Both standing and seated group choral stands are also available in four elevations.



AMERICAN SCHOOL AND UNIVERSITY—1958-59

THE HOLLISTON MILLS, INC.

Norwood, Mass.

NEW YORK • PHILADELPHIA • CHICAGO • MILWAUKEE • SAN FRANCISCO

Manufacturers of Bookbinding Fabrics

Color Texture Durability } **Roxite**

Make one word do the work
of three . . . just say "Roxite"
. . . good for any book—best
for school books.

A complete assortment of qualities in new enlarged line of
Vellums, plain and embossed—Linens—Buckrams—water
repellent—soil resistant. Wide range of colors. Meets all
specifications.

Holliston BINDING FABRICS

Tracing Cloths, Coated and Impregnated Fabrics, Viodite Vinyl Coated Fabrics, Rubber Hollands,
Map Cloth, Photo Cloth, Reinforcing Fabrics, Sign, Label and Tag Cloths.

IT'S A BETTER BOOK HOLLISTON BOUND

AMERICAN SCHOOL AND UNIVERSITY—1958-59



UADRALINE

by american desk

D4/AmD

*Tomorrow's Seating
For Today's Schools!*



A complete new line! Rugged quadratic tubing, trim, neat lines in colorful additions to today's **living** classroom!

(Series 1420 Instructor's Desk)

The Executive Touch!

A two-pedestal consultation type desk with recessed privacy panel permits student to sit comfortably opposite instructor. Center drawer and locking pedestal drawers faced with plastic to match 30" x 60" top. Deep file drawer in each pedestal. Shown with Series 800 Arm Chair.



Series 800
Arm Chair



Series 1420
(Teacher's Side)

Series 500 Chair

Series 1410
(Teacher's Side)



for complete color-illustrated catalog write:

american desk manufacturing co. **d+d** temple, texas





QUADRALINE

by american desk



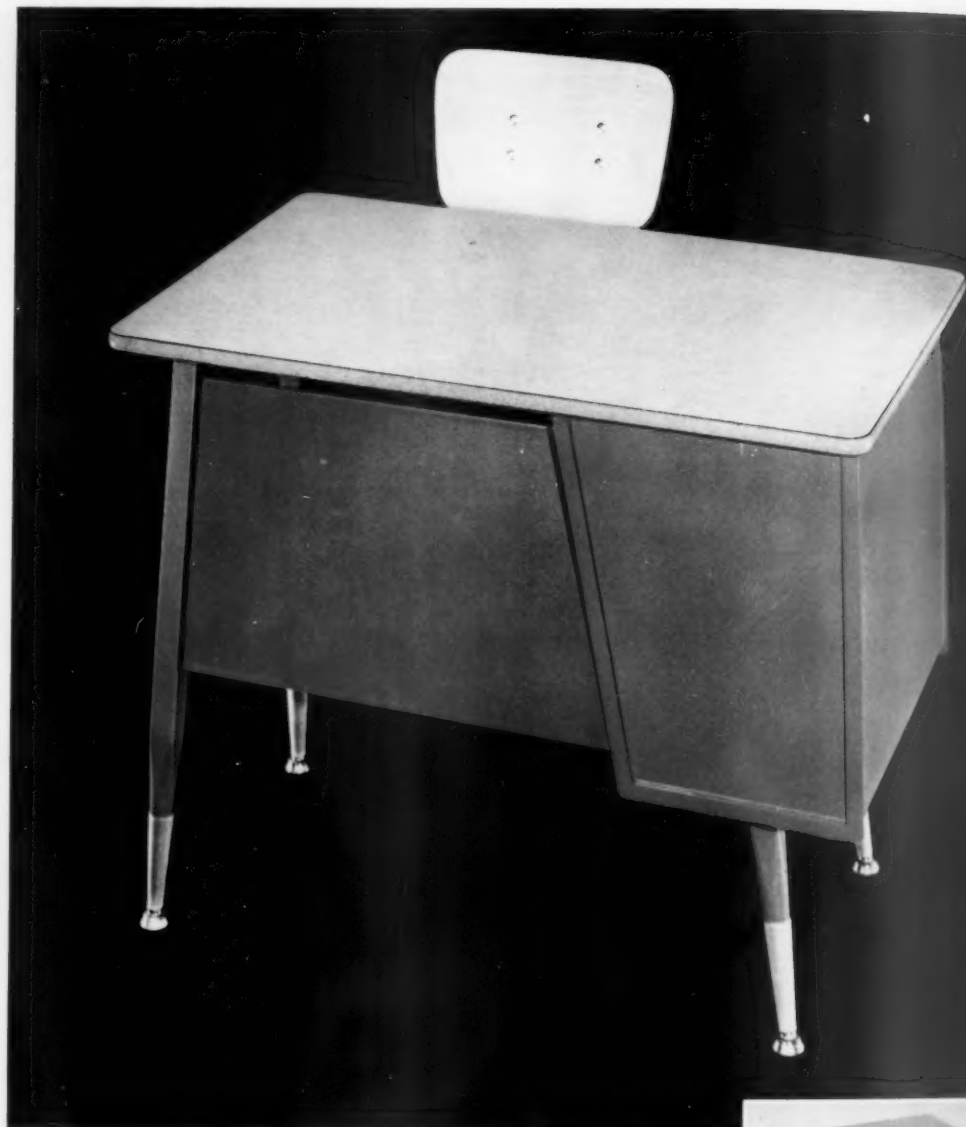
Series 1100 Open Front Desk



Series 1200 Lift-Lid Desk



Series 1000 "Flat-Top" Desk



Series 1300 Jr. Exec with Series 500 Chair



A Preview of Tomorrow's Classroom!

A complete line of classroom furniture in *future* tense! Dramatically improves present working conditions . . . provides *now* for changing needs of the future.

For Competent Assistance, Complete Details, Ask Your State AD Representative

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american desk manufacturing co.



temple, texas



QUADRANGLE

by american desk

D4/AmD



Series 600 Chair Desk



Series 700 Tablet Arm Chair



Series 700 P Pedestal
Tablet Arm Chair



Series 900 "Combo" Chair and Desk



Workable New Design Best Serves Classroom Needs!

Combines the ruggedness of quadratic tubing with trim and graceful new lines in single, integral units for outstanding stability. Complete absence of stretchers provides ease of maintenance... greater leg freedom and comfort.

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QUADRALINE by american desk

*Interesting
Grouping
Arrangements!*



The Series 1600 Rectangular Table.

An outstanding, all purpose table for your library, classroom, conference room, cafeteria. Available with or without book compartments in a full range of sizes and heights.

Use Mobile Quadraline Tables singly — in groups to cooperate with *all* class activities! Tops are pencil-proof, scratch and heat resistant, with full 1 1/4" solid core, edge-banded with plastic to match top.

Standard Metal Colors: Mint Green, Sea Blue, Coppertone, Mist Gray.



◀ (Series 1900
Trapezoidal Table)



(Series 1800
Half-Round Table) ▶



(Series 1700
Round Table) ▶

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american desk manufacturing co.



temple, texas

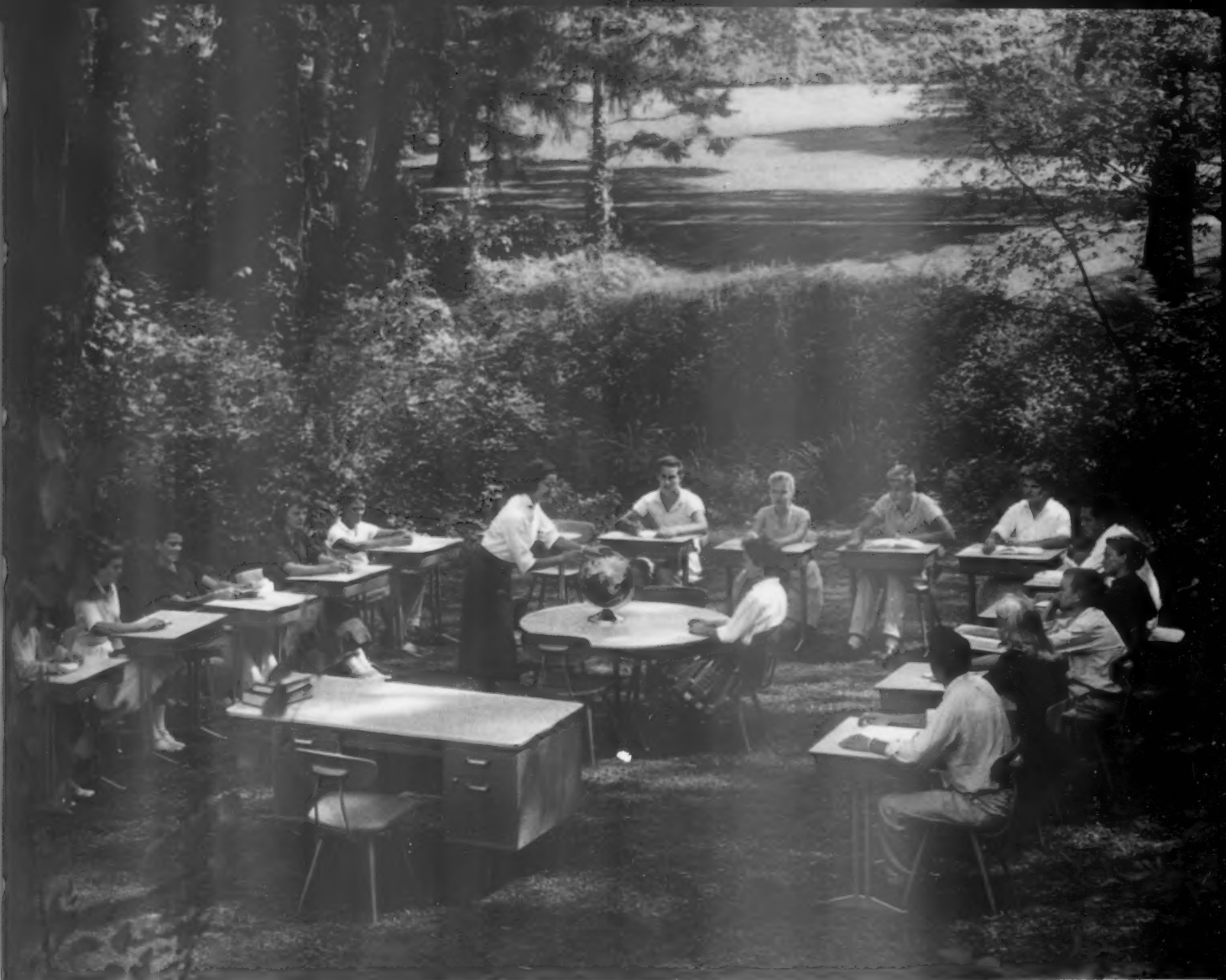
American Seating

SCHOOL FURNITURE FOR 1958



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Presenting the American Seating family of fine school furniture

There are those who feel, and rightly so, that due to the pressing need for more and more school facilities, economy is more necessary than ever.

They want to put their money to the best use for the most vital needs first.

We agree with this thinking 100%.

We put this classroom outdoors, for all to see, in order to stress the importance of good seating, and to remind you that teachers and students *use* seating more than any other item.

Your examination of American Seating furniture will prove: (1) You get the greatest value, per dollar invested; (2) Students and teachers alike enjoy more benefits from American Seating equipment than any other make. Because . . .

American Seating furniture has more postural advantages and more structural features than any other make of school furniture. And it lasts much longer. Con-

sequently, American Seating furniture is the most economical furniture you can buy.

No wonder American Seating furniture outsells every other make.

On the following pages you'll find American Seating furniture (shown in full color) for every school need, from kindergarten through college. It is designed to influence student performance favorably, and improve teaching effectiveness greatly. It is the result of continuing research and development, in close co-operation with educators . . . and our more than 70 years' experience in the school field.

For further information on any of the products shown herein—or on other American Seating products—by all means call in an American Seating representative. The best way to evaluate the superiority of school furniture is to see it firsthand, in a private showing in your own school. Arrange for a demonstration of American Seating fine furniture—soon.



No. 538

Ideal visual plane for reading, writing or drawing—top sloped 20°.



No. 538 Classmate 10°-20° Unit Table (with No. 540 CLASSMATE Chair). Aluminum-banded AMEREX® metal-and-plastic top, 20¼" x 24", adjusts silently to three positions—10°, 20°, or level—for greater visual and postural comfort in reading, writing, drawing, or manipulative tasks; opens wide for full access to contents. Full-length pencil tray inside. Graceful, sturdy, steel standards afford maximum leg room. Height adjustable in 1" increments. Aluminum scuff strips on low-silhouette feet prevent wear of enamel finish. Silicone-floating, self-leveling, hardened-steel glides uniquely and automatically adjust to uneven floors—exclusive with American Seating; large diameter eliminates floor-marring. Three basic height adjustments: 28" to 31"; 25" to 28"; 21" to 24". (See page 5 for diagrams of glide, height-adjustment assembly, etc.)



AMEREX® METAL-AND-PLASTIC TOP. Stronger, lighter in weight than ordinary plastic tops. Adds years of "wear life" to school-desk tops. Researched, designed and manufactured by American Seating Company. Table No. 538 features this construction in exclusive, three-position top.



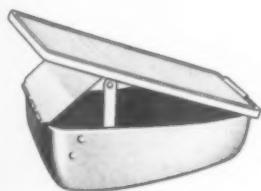
Continuous, anodized aluminum band permanently protects edge.



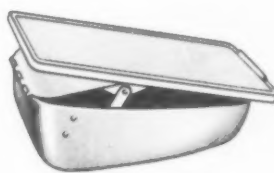
Plastic top—5 times more wear-resistant than wood surfaces.



Sturdy, die-formed, welded steel frame for rigid support of work surface, secure hinge attachment.



20° slope—for best eye-to-hand coordination, minimum eyestrain, with natural, relaxed posture—for reading, writing and art work.



10° slope—conventional position, for use when less than 20° slope is desired. Tamper-proof mechanism quietly, automatically locks to either slope.



Level—serves as base to support materials used in manipulative tasks, discussions, project work, where more nearly erect sitting is required.

American Seating's AMEREX metal-and-plastic top employs a completely new principle of design and construction. Strength of top is built into the supporting frame, for long surface "wear-life." Permanent protection of the plastic surface is afforded by a continuous, anodized aluminum banding. No wood, no wood screws.

Die-formed supporting steel frame gives rigid support to work surface, carries desk-top load, affords trouble-free, metal-to-metal hinge attachment. Top is stronger, yet lighter in weight, than

ordinary plastic tops—and with more than 5 times greater surface resistance to wear than the best wood desk-top finishes. Entirely eliminates danger of warping, checking, or splitting.

Attractive, non-glare, birch-grain pattern resists ink, showcard paints, water colors, milk, perspiration, and other mild acids. Satin-smooth surface is free of grain lines, soft spots, high points, and other irregularities which are common to wood-and-plastic construction; effectively resists defacing and dents. Light reflectance, 40 to 50%.

COLORS AND FINISHES ON AMERICAN SEATING CLASSROOM FURNITURE

Diploma Blue and Classday Coral, as shown on products herein, are lending new brightness and color harmony to classrooms and auditoriums. Metal parts finished in special-formula, alkyd-urea enamel, and baked to a

smooth, hard finish. All plywood used is bonded with hot-press urea-resin adhesive—for maximum strength and moisture-resistance—and durably lacquered. All plastic is high-pressure type, with controlled light reflection.

AMERICAN
SEATING



CLASSMATE® LIFTING-LID UNIT TABLE



Top of roomy, die-formed, steel book-box opens wide for full access to contents, remains raised without support. Friction is adjustable. (See diagram on page 17.)

No. 544 Classmate Lifting-Lid Unit Table (with No. 540 CLASSMATE Chair). This unit combines inviting design with the use values of the rounded, die-formed, steel book-box, and centered pedestals, for maximum knee and leg room. Aluminum-banded AMEREX® metal-and-plastic top, 18½" x 24", rests in level position; has hard, satin-smooth, non-glare, birch-grained surface. Non-slam, silent hinges hold top open wide for easy access to contents; friction is adjustable. Full-length pencil tray inside book-box; also has tray along forward edge of top. Height adjustable in 1" increments. Aluminum scuff strips on low-silhouette feet prevent wear on enamel finish. Silicone-floating, self-leveling, hardened-steel glides uniquely and automatically adjust to uneven floors; large diameter (1⅜") eliminates floor-marring. Three basic height adjustments: 28" to 31"; 25" to 28"; 21" to 24". (See page 5 for details of glide, height-adjustment assembly, etc.)

AMERICAN
SEATING



CLASSMATE® OPEN-FRONT TABLE



No. 549 Classmate Open-Front Unit Table (with No. 540 CLASSMATE Chair). Features convenient corner entry, providing visible access to 4"-deep steel book-box. Pencil tray recessed in bottom. Table has 18" x 24" AMEREX® plastic top, with hard, satin-smooth, non-glare, birch-grained surface. No wood parts. Sturdy, graceful steel standards afford maximum leg room. Height adjustable in 1" increments. Aluminum scuff strips on feet. Silicone-floating, hardened-steel, self-leveling, $1\frac{3}{8}$ " glides automatically adjust to uneven floors. Three basic height adjustments: 27" to 30"; 24" to 27"; 20" to 23".

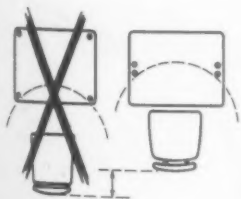
No. 549

SOME FEATURES OF CLASSMATE TABLES

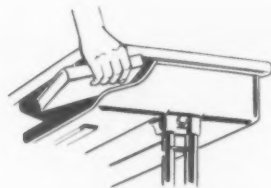


FLOOR LEVEL VARIANCE

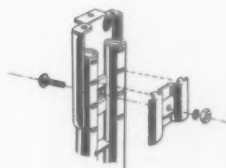
Exclusive, self-leveling, silicone-floating, hardened-steel glides quickly cushion and uniquely, automatically adjust tables to uneven floors—avoids table-rocking and distraction of students. Large-diameter glides protect the surface of floors.



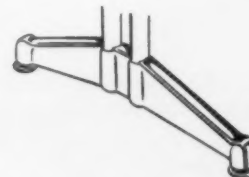
Pedestal standards make it easy to get in and out of chair—less space is needed for pushing chair back. Conserves floor space, allows extra room for activities.



Convenient corner entry and rounded lines (on No. 549 table only) provide visible access to contents of all-steel book-box. Pencil tray recessed in bottom.



Bolt-and-nut assemblies adjust each book-box to 4 positions, without marring finish—3 basic standards provide heights of 20" through 30".



Aluminum scuff strips on the low-silhouette feet of CLASSMATE tables prevent wearing of enamel finish, help maintain new appearance indefinitely.



No. 509

No. 509 Classmate Study Unit Table (with No. 540 CLASSMATE Chair). This sturdy, economical and attractive table is particularly adapted for study, but is also generally useful in classrooms. It conserves floor space and allows extra room for classroom activities because the graceful, strong pedestal standards make it easy to get in and out of chair, besides affording maximum leg room—less space is required for pushing the chair back as with corner legs. Has 18" x 24" AMEREX® plastic top, with hard, satin-smooth, non-glare, birch-grained surface. No wood parts. Three basic height adjustments

are available, in 1" increments: 27" to 30"; 24" to 27"; 20" to 23". Well rounded corners and a flange formed along bottom edge provide extra rigidity as well as protection of occupant and clothing. Aluminum scuff strips on the low-silhouette feet prevent wearing of the enamel finish. Silicone-floating, hardened-steel, large (1 $\frac{3}{8}$ ") glides protect floor surface; uniquely and automatically adjust to any unevenness—no wobbling of table to annoy and distract students. For details of the *exclusive*, self-leveling and cushioning glide, also of height-adjustment assembly and other features, see page 5. Chair described on page 8.

CLASSMATE® ROUND TABLE

No. 141 Classmate 48" Round Table. Aluminum-banded AMEREX metal-and-plastic top. Pedestal standard permits more leg room and knee room; leaves entire perimeter free for sitting. Silicone-floating glides uniquely, automatically adjust to uneven floors; eliminate table wobbling. Large-diameter of glides (1 $\frac{3}{8}$ ") protects floor surfaces. Aluminum scuff strips on standard. Hts.: 21" (shown), 23", 25", 27" and 29".



No. 141



Exclusive plastic-and-metal construction.

No. 140 Classmate Multi-Pupil Tables—with or without UNI-STOW® die-formed steel book-compartments. (Shown is the 36" x 72" size, with book-compartments.) Top of aluminum-banded, birch-grained AMEREX® plastic, with steel-girder underframe. Steel pedestal standards afford maximum

leg room; pivoted under top for quick, easy setup and space-saving storage. Height adjustable in 1" increments on various table sizes, as listed at right. Aluminum scuff strips on feet. Silicone-floating, self-leveling, hardened-steel, 1 3/8" glides. (See diagrams of glide and other features on page 5.)

Top Dimen. (inches)	Ht. Adjustments (1" increments)	Compartment-ments Available
24 x 48 24 x 48 24 x 48	20 — 23 24 — 27 27 — 30	2
30 x 60 30 x 60 30 x 60	20 — 23 24 — 27 27 — 30	3*
30 x 72 30 x 72 30 x 72	20 — 23 24 — 27 27 — 30	3*
36 x 72 36 x 72 36 x 72	20 — 23 24 — 27 27 — 30	3*

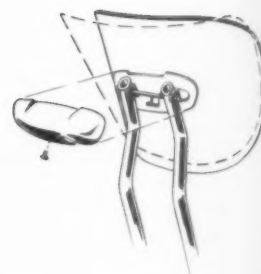
*Book-compartments available on both sides of 30" and 36" tables.



No. 140 Classmate Two-Pupil Table (with No. 540 Chairs). Top measures 24" x 48". Has same features as other CLASSMATE Multi-Pupil Tables. Available with or without die-formed steel book-compartments, on one side. Useful for classrooms or dormitories.



No. 540



Deep-curved chair back adjusts automatically on concealed pivots. Double offset braces provide extra hip room, also position the back panel for constant lumbar support for all tasks (see arrow below). Countersunk setscrew secures cover over pivot device.



CLASSMATE Chairs are posture-perfect, with comfort-contour seats and tilting backs. In NINE seat heights—for kindergarten through college—in 1" increments, 10"

through 18". In harmonizing Diploma Blue. (The 10", 11" and 12" sizes in Classday Coral as well as Blue.) Also available with upholstered seat and back—see page 10.



No. 542 Classmate Desk. Has roomy, comfort-posture, birch-plywood seat. Aluminum-banded AMEREX® plastic top with hard, satin-smooth, non-glare birch-grained surface. Writing surface is sloped 6°; heavy-gauge arm support is offset for greater body freedom. Sturdy, all-purpose, center-divided, non-trash-collecting book-rack is accessible from either side. Back and glide features same as No. 540 Chair. Seat heights: 18", 17" and 15".

No. 543 Classmate Tablet-Arm Chair (below). Large, compound-curved seat same as on No. 542 Desk; also post-and-girder, welded construction, gracefully tapered legs, and self-aligning, ball-joint glides, as described below. AMEREX plastic arm, sloped 6°, measures 12" x 20"; support offset for greater roominess. Seat heights: 18" and 17".

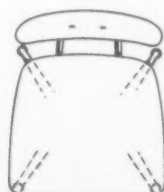


No. 542



Wide, posture seats are compound-curved—that is, curved from front to back and side to side. The most comfortable classroom seat ever designed!

Silent, rubber-cushioned, ball-joint, full-contact chair glides protect floor surfaces, automatically aligning themselves with the floor. No marring.



Post-and-girder, welded chair construction assures long life with hardest use. Interlocking bridge-like construction of the posts and girders gives exceptional strength.

Leg-spread, engineered for style and perfect load distribution, falls within the periphery of the seat—thus eliminating any stumbling hazard.



No. 543



CLASSMATE® REINFORCED-PLASTIC CHAIR



No. 540P
In Classday
Coral and
Diploma Blue

No. 540-P Classmate Reinforced-Plastic Chair. Sets new standard for long life and comfort. Seat and back derive great strength, hardness from pressure-molded plastic reinforced by swirl-pattern mat of glass fibres—no splintering hazard; will not craze, warp, or check; unaffected by humidity, moisture. Large, compound-curved seat is thicker in areas of greatest stress; turnover on edges adds further strength. The opaque color goes clear through—no refinishing problem. Posture-formed back adjusts automatically for proper back support throughout day. Rubber-cushioned, ball-joint glides. Double-offset back-braces. (For diagrams of panel, frame and glide features, see pages 8-9.) In SIX seat heights of 1" increments, 13" through 18".



Shown in
Parchment and
Diploma Blue

TEACHER and TYPIST CHAIRS

American Seating Teacher and Typist Chairs match classroom furniture, harmonize with most teacher desks, office or classroom equipment they might be used with. Also suited for offices, commercial classes, and school administrators' use. Available with foam-rubber upholstery if desired, and either casters or glides.



No. 498

No. 498 Chair. Curved back and large, size-"X" cradleform seat padded with foam rubber. Seat ht. adjustable, 17¼" to 21¼". Also with plywood seat, back: No. 494. Both chairs with casters or glides.

No. 541 Classmate® Chair. Matches styling of CLASSMATE classroom chair, as described on pages 8, 9. Seat and back padded with foam rubber. In 18" ht. only.



No. 541

AMERICAN
SEATING



TEACHERS' DESKS

WITH AMEREX® METAL-AND-PLASTIC TOP



No. 560 Single-Pedestal Desk,
with matching No. 541 Chair.

American Seating Teachers' Desks are available in single- and double-pedestal models, color styled in Diploma Blue and Classday Coral. AMEREX metal-and-plastic, birch-grained top, with aluminum banding. Legs are so placed that the 29"-high top provides generous overhang, for teacher-student conferences. Rubber-cushioned, ball-joint, full-contact glides prevent floor-marring.

Drawer pedestals have one-piece steel body wrap-around, with welded, channel construction. Recessed modesty panel. Drawers have nylon glides, with cushion stop. File drawer is equipped for front-to-back filing; lock (on double-pedestal desk it is on right side only) secures both drawers. Center drawer has convenient two-section tray in front. Extruded-aluminum drawer pulls.

DIMENSIONS (Inches)

Models:	Top Size	Overhang (left side)	Center Drawer (inside; ht., width, depth)	Box Drawer (inside)	File Drawer (inside)
No. 560 Single-Pedestal	30 x 48	10	2 $\frac{1}{4}$ x 20 $\frac{1}{2}$ x 19 $\frac{1}{2}$	4 $\frac{1}{2}$ x 12 $\frac{1}{2}$ x 21	10 $\frac{1}{4}$ x 12 $\frac{1}{2}$ x 21
No. 561 Double-Pedestal	30 x 60	9 $\frac{1}{2}$	2 $\frac{1}{4}$ x 20 $\frac{1}{2}$ x 19 $\frac{1}{2}$	4 $\frac{1}{2}$ x 12 $\frac{1}{2}$ x 21	10 $\frac{1}{4}$ x 12 $\frac{1}{2}$ x 21



No. 561 Double-Pedestal Desk.



NEW!

CLASSMATE® HIGH-SCHOOL and COLLEGE DESK

No. 520 Classmate High-School and College Desk.

This sturdy, economical, one-piece unit is streamlined for unobstructed, stretcher-free leg room and relaxed comfort. Large, 19" x 24" top of AMEREX® plastic, 30" high. Over-all size of unit, from front to back, 34". Generous space offers freedom of movement and easy entry or exit. Unit is readily movable. Large, compound-curved seat is curved from side to side, as well as front to back; lacquered birch plywood, with rounded edges. The deep-curved back adjusts automatically on concealed pivots. Double-offset back braces provide extra hip room, also position the back panel for proper lumbar support in all work tasks throughout the day. Strong, tapered legs are welded to 1 1/8" desk-support tube for rigidity. Rubber-cushioned, ball-joint, self-aligning glides protect floor surfaces. Handy enameled book-rack included.



No. 520

Comfort, strength and compactness characterize this unit, which takes up but 14 cubic feet of space!



No. 445

No. 445 High-School and College Desk. Designed for getting in and out in one easy, natural motion, this roomy desk provides maximum sitting comfort with full freedom to perform all tasks, left- or right-handed. Pylon-type construction provides free leg room; permits generous space between chair and writing surface; quiet—no chair-scraping. Large-sized cradleform seat swivels 30° right, 60° left on silent nylon bearings, which *never* require lubrication. Lower rail on deep-curved seat-back is self-conforming to all students' backs; offset back brace gives extra hip room. Non-trash-collecting platform offers ample book-storage space. Sloped desk of AMEREX® plastic measures 16" x 23". Desk heights may be varied to approximately 28", 29", 30" or 31"; seat, 16", 17", 18". One unit suitable for grades 7 through 12, and college. Conserves up to 30% floor space, over table-and-chair seating, and is quieter because chair-scraping is eliminated.



- Modern Styling
- Greater Student Comfort
- Steel Pylon Construction
- One Unit for Grades 7 to 12

Developed through extensive research and consultations with educators, on the specific needs and problems—physical, psychological and curricular—of junior-senior high-school and college students. Embodies the recommendations of architects and designers, as well as educators.



No. 471

Pedestal Chair No. 471. Has open back and self-adjusting lower rail. Other features same as No. 472 Chair.



No. 472

Pedestal Chair No. 472. Cradleform posture seat, 17" high. Solid, deep-curved back. Tablet-arm measures $23\frac{1}{2}$ " x 12", is at proper height and slope for writing comfort. Metal book-rack, shown, is optional. Oval-shaped, rigid, steel pedestal has 9 " x $11\frac{1}{2}$ " base.



UNIVERSITY-Type Pedestal Tables with No. 406 Pedestal Chairs. Sturdy tables, providing continuous working surfaces installed in straight rows or on a radius—in large or small rooms, on level or sloping floors, with or without risers. Sections accommodate two pupils ideally; are 54" long, 16" to 24" wide, 29" high. Pedestals offset for ample leg room. AMEREX® plastic tops. Plywood seats and backs. Seat heights adjustable from 14" to 18".

out risers. Sections accommodate two pupils ideally; are 54" long, 16" to 24" wide, 29" high. Pedestals offset for ample leg room. AMEREX® plastic tops. Plywood seats and backs. Seat heights adjustable from 14" to 18".



No. 431

431 STUDY DESK

No. 431 Study Desk. A compact, economical unit for study halls, classrooms. Primarily for senior and junior high-school use. AMEREX plastic top has comfortable writing slope, measures 18" x 24". Non-swiveling 14 " x $16\frac{1}{2}$ " seat is cradleformed for sustained comfort, has deep-curved back with self-adjusting lower rail to fit each occupant. Height adjustments by means of wrap-around clamps for both seat and top. Easy access from either side.



Roomy, enameled, steel-wire book-rack is available. Access from right hand side under top. Installed with 4 screws in prebored holes.

AMERICAN
SEATING



UNIVERSAL® "TEN-TWENTY" DESK

WITH FAMOUS, 3-POSITION, AMEREX® TOP



No. 536

DIMENSIONS FOR AMERICAN "TEN-TWENTY" DESK

Size	A	B	C
Grade	V-Adult	II-VI	I-III
Seat Height (inches)	14-18	12½-16½	11¼-14¼
Desk Height ¹	25¼-30¼	22¾-27¾	20¼-25¼
Net Over-all Front to back ²	32¼-34¾	31¼-33¾	30-32½
Desk to back ³	11¼	10	9
Seat Depth	14	12¼	11
Recommended Spacing Back to Back	37	35¾	34½

¹ Floor to upper surface of top in level position.

² Seat swiveling adds approximately 1 inch.

³ Sitting space, with top at 20° slope and seat forward.

No. 536 Universal 10°-20° Desk. Unsurpassed for student-learning performance, and teacher guidance and control. Permits flexibility of arrangement for various activities in either groups or rows; eliminates chair-scraping noises.

AMEREX® 20¼" x 24" metal-and-plastic top is quickly, quietly adjustable to 10°, 20° slopes, or level, for relaxed visual and physical comfort at all tasks. Automatic fore-and-aft seat adjustment; posture seat swivels 45° left and right for getting in or out either side. Deep-curved back, with self-adjusting lower rail, fits each occupant. Seat and desk heights adjustable with never-fail wrap-around clamps. Plywood cradle-form seat with no rearward elevation. Deformed, one-piece steel book-box construction, and large solid metal glides, as described on page 17. With book-rest.

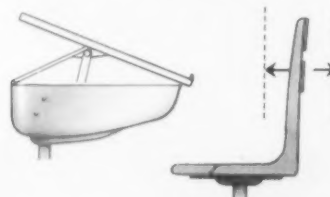


20° slope—for minimum eye-strain, natural relaxed posture for reading, writing, art.



10° slope—conventional position, for use when less than 20° slope is required. Tamper-proof, housed mechanism quietly, automatically locks to desired positions.

Level—serves as a base to support materials used in manipulative tasks, group discussions, and project work, where more nearly erect sitting is required.



Fore-and-aft seat adjustment is automatic; this exclusive feature insures proper focal adjustment for all tasks. Seat travel: 2½".

SEE "AMEREX" STORY ON PAGE 3



No. 534

DIMENSIONS FOR DESK NO. 534

Size	Grade	Seat Height (inches)	Height ¹	Net Over-all Front to Back ³	Desk to Back ²	Seat Depth
A	V-Adult	14-18	25-30	31 $\frac{1}{4}$	11 & 12 $\frac{1}{2}$	14
B	II-VI	12 $\frac{1}{2}$ -16 $\frac{1}{2}$	22 $\frac{1}{2}$ -27 $\frac{1}{2}$	30	10 & 11	12 $\frac{1}{4}$
C	I-III	11-14	20-25	29	9 & 10	11

¹ Floor to upper surface of top at edge next to the occupant, with top down.

² Near position. (Seat swiveling adds approximately 1 inch.)

³ Sitting space. Both spacings provided for in seat construction.

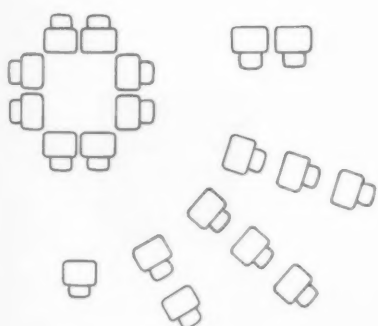
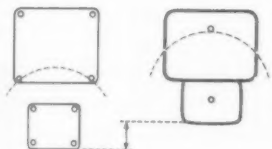


No. 534 Universal Lifting-Lid Desk. The popularity of this unit is based on its functional advantage of flexibility and comfort, with wide-range adjustability of seat and desk. Famous American Universal features include continuous cradleform sitting in every posture position; seat swivels 45° right and left on large, long-life bearing, for getting in or out either side easily. Deep-curved back, with self-adjusting lower back rail, fits each occupant, and promotes relaxed sitting comfort with freedom for best performance.

Roomy, die-formed, one-piece steel book-box with smooth, rounded lines; clean-out hole in bottom;

full-length pencil tray inside book-box; also, tray along forward edge of top, and book-rest at near edge. The large, one-piece AMEREX® metal-and-plastic work surface measures 18½" x 24", is used at 10° slope or level; opens wide for easy access to contents of book-box.

Frame connecting member of one-piece heavy steel tubing provides maximum durability with minimum weight, for easy moving—eliminates chair-scrapping noise. Solid metal glides, 1½" diameter; rubber shoes available. Never-fail, wrap-around clamps provide simple height adjustment of both seat and book-box.



FLEXIBILITY thru adjustment

Use the same unit for several grade levels

Because both desk height and seat height are adjustable, the Universal Lifting-Lid Desk is adaptable to different-sized students.

Properly sized furniture for various-sized occupants

Correct posture is promoted by the design of the seat and seat back, and by the angle of the sloped desk top. Deep-curved back, with self-adjusting lower back rail, assures relaxed sitting comfort.

FLEXIBILITY thru space conservation

More free floor area for class activities

Because seat and desk are an integral unit, the Universal Lifting-Lid Desk takes up much less space than ordinary tables and chairs.

More units in classroom if necessary

More students may be accommodated in individual classrooms, without excessive crowding.

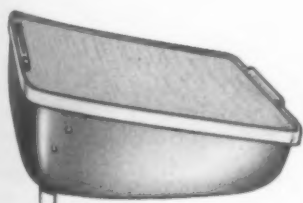
FLEXIBILITY thru arrangement

Design permits accessibility from either side

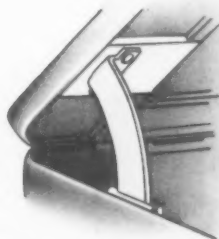
Swivel seat lets students enter and leave from right- or left-hand side. Thus, units can be double-rowed to save space; arranged in a large grouping as a case unit, or in small groups for conference and project work.

No chair-table mix-up

One-piece design eliminates problem of keeping proper-sized chairs with corresponding unit table. Quiet in use, as there is no distracting chair-scrapping noise.



One-Piece Top: Full work-surface at 10° slope, or level. Pencil tray on top; also full-length tray inside book-box.



Non-Slam Hinges: They hold top open wide, for easy access to book-box, prevent slamming. Operate silently. Friction is adjustable.



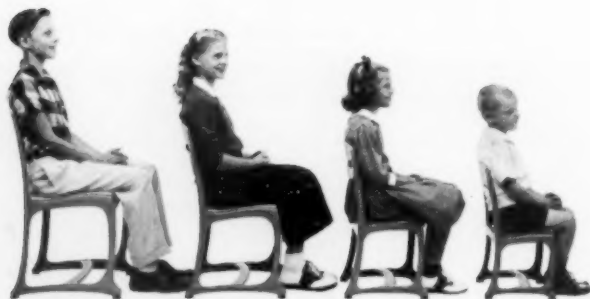
Entire Lid Opens: Device levels lid for manipulative tasks, group discussions, project work. Lifts for full access to contents.



No. 380

No. 380 Envoy Tablet-Arm Chair. An exceptional value in the low-priced tablet-arm chair field. Sanitary, roomy book-cabinet, with all-purpose book-guard on occupant's right. The 23½" x 12" tablet-arm slopes 3¼" within its length, for extra writing comfort. Rigid formed-steel arm support is securely attached to frame. Made in 17" seat height only.

Also available: **No. 378**—like No. 380 without book-cabinet.



17-inch

15-inch

13-inch

11-inch

The Envoy Line . . .

American Seating's ENVOY line combines functional beauty with comfort, light weight, durability and economy.

Die-formed construction, with one-piece side frames, eliminates rivets—no squeaks. Back braces hemmed for extra strength and smoothness, and curved to match natural contour of body; house and protect edges of back at top. Cross-members are joined to frame by multiple welds.

Formed plywood seat with short-roll front edge, and deep-curved back with self-adjusting lower rail to fit all occupants, provide proper posture support for a wide range of student sizes. Seat edges protected by smooth, steel frame which extends beyond sides, front and rear; flange supports seat all around, including full width of rear.

Silent, rubber-cushioned, 1⅜" hardened-steel glides protect floors, help maintain classroom quietness. Rubber shoes are available.



No. 368

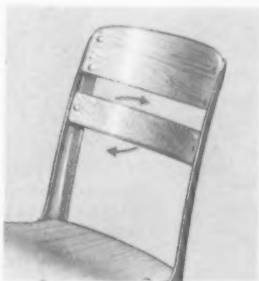
No. 368 Envoy Chair. Light-weight, streamlined chair with remarkable strength. Widely used in classrooms, libraries, cafeterias, dormitories. Self-adjusting back-rail, and short-roll-front seat accommodate a wide range of child sizes. Seat hts. 11" to 17". "Knee-action" keeps rear glides flat on floor when chair is tilted.



No. 352 Envoy Desk. This sturdy, light-weight unit provides comfortable and relaxed sitting. Top slopes 6° for writing comfort, is adjustable for height by loosening of a single bolt on never-fail, wrap-around clamp. Heavy-gauge front stile, and method of attaching the tubular support, afford great strength and rigidity. Big, easily accessible storage book-compartment has book-guard on occupant's right, with access opening at top; bottom embossed for extra strength and rigidity. Silent, rubber-cushioned glides. Seat heights: 17", 15" and 13".



Roomy book-compartment, with book-guard on right, is accessible from both sides. Curved cleanout opening in bottom, next to guard.



The Envoy line of American Seating features a deep-curved back with self-adjusting lower rail that fits each occupant, provides comfortable support.



No. 352

DIMENSIONS FOR ENVOY DESK NO. 352

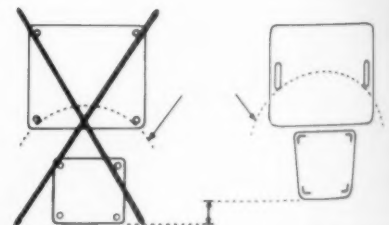
Seat Height (inches)	Grade	Top Size	Desk Height (high point)	Total Length	Desk to Back	Seat Depth
17	VI-Adult	15x22	27-30	28 $\frac{1}{4}$	11 $\frac{7}{8}$	14 $\frac{7}{8}$
15	III-V and many VI	14x20	23 $\frac{5}{8}$ -26 $\frac{5}{8}$	25 $\frac{3}{8}$	10 $\frac{1}{8}$	13 $\frac{1}{4}$
13	II and III	13x18	21 $\frac{1}{8}$ -24 $\frac{1}{8}$	22 $\frac{5}{8}$	8 $\frac{3}{4}$	10 $\frac{3}{4}$

Lacquered plywood seats and backs on the Envoy line. The desk-top and tablet-arms are in AMEREX® plastic.



No. 329

No. 329 Unit Table, with Open-Front Book-Box (with No. 368 Envoy Chair). Die-formed construction. Level, AMEREX[®] plastic top, 18" x 24", with edges extended for placing several tables together for group activity. The sturdy, oval, steel standards ensure table stability, permit the student to get in or out with a minimum of chair-scraping noise; save valuable space by allowing a closer spacing of units (see diagram). Standards securely attached to the box frame and top. The open-front book-box measures 16" x 21 $\frac{3}{4}$ ", has a 4"-deep opening. Full-length pencil tray recessed in bottom of box, and sides and bottom also embossed for strength. Equipped with large metal glides. Heights: 21", 23", 25", 27" and 29".



NOT THIS ...
Space-Wasting—
4-legged table
with chair.

... THIS Space-
Saving—American
Seating Unit Table.

AMERICAN
SEATING



FOLDING TABLES

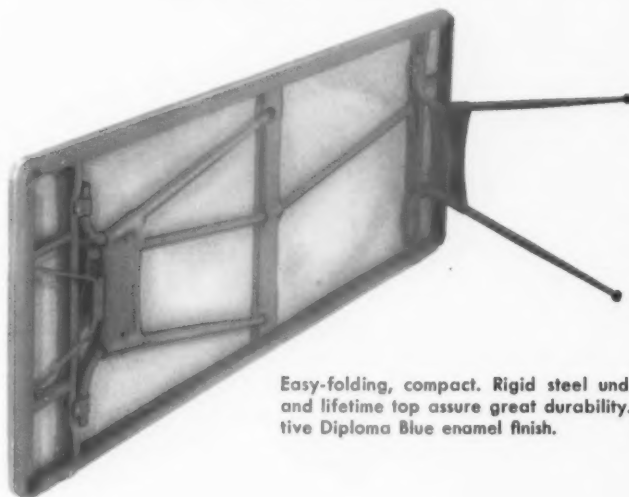


No. 142

No. 142 Multi-Purpose Folding Table. Finest steel-and-plastic folding table ever! Has every advantage of permanent table plus the convenience of mobility. Folding is a *one-person, one-motion* operation. Rigid, one-piece support member gives positive lock, when table is open. All-steel underframe is as sturdy as your car. Genuine AMEREX® birch-grained plastic top, banded with anodized aluminum, assures lifetime wear. Hidden wheels in frame allow effortless rolling of table to and from work. Just 1 $\frac{3}{8}$ " "thin," four of these tables can be stored in space occupied by two or three ordinary folding tables. Available in two sizes: 30" x 72" and 30" x 96" (29" high). Tread-rubber shoes will not slip, or mar floors. CLASSMATE® styling complements other CLASSMATE units.



Two recessed wheels, on one side, permit rolling easily to and from room.



Easy-folding, compact. Rigid steel underframe and lifetime top assure great durability. Attractive Diploma Blue enamel finish.

STACK and RACK FOLDING-CHAIR TRUCK



Loaded: holds 72 chairs.



Unloaded: convenient coat rack.

No. 16 "Stack and Rack". Compact folding-chair truck that doubles as convenient mobile coat-and-hat rack, when unloaded. Stores 72 chairs, suspended upside down, supported by two tubular steel arms. Loading and unloading is quick. Four heavy-duty 5" casters make it easy to move. Constructed of 2" x 2" x $\frac{1}{8}$ " steel angles and heavy steel tubes, welded and bolted. Over-all dimensions: 72 $\frac{1}{4}$ " high (78" loaded), 30" wide, 60" long. Net weight: 128 lbs., unloaded.



American Seating Folding Chairs are engineered for maximum strength as well as comfort. Front legs and back are one continuous length of triangular steel tubing; back legs are of similar tubing. Four solid-steel cross-braces insure permanent rigidity, shouldered against inside of tubing and securely riveted outside. Deep (7½"), formed, shoulder-fitting back panel with rolled bottom edge, is inserted and welded smoothly into the tubing. Ample sitting room in wide, deep seats. Steel reinforcing bar inside front legs distributes seat-to-frame load. Chairs are self-leveling on uneven floors.

Long-life, tread-rubber shoes—will not slip or mar floors. Metal parts corrosion-resistant Bonderized, plus one dipped, one electrostatically sprayed coat of chip-proof, baked enamel (special-formula, alkyd-urea type)—coating inside as well as outside of legs, for rust-inhibitive treatment, also for the quietness this adds.

The center of gravity is so located that chairs cannot tip forward in use. And they are expertly designed and carefully manufactured to be free of binding, pinching, or snagging hazards. This safety is of paramount importance in public seating.

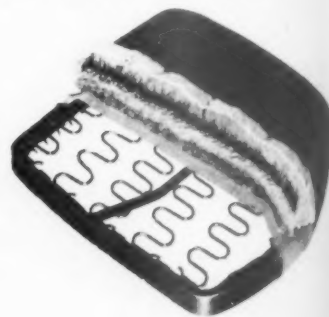
No. 80 Folding Chair. Seat folds back independently of the folding action of the chair frame, to allow back-to-back spacing of only 30" . . . 9" less than is needed for conventional folding chairs. Seats are of spring-arch construction and upholstered as shown below. A handle, installed between coupled chairs, permits balanced carrying, and easy folding for storage. Available in many frame and upholstery colors and materials. Clamped together in units of two or three. Choice of colors.



The independent fold is an advanced feature that permits back-to-back spacing of only 30", increasing seating capacity almost one-third! (This feature, shown on Nos. 80, 90, and 73, is available on all American Seating folders.)

SPRING-ARCH SEAT CONSTRUCTION ON CHAIRS Nos. 80, 70, 90 and 60

Arched serpentine springs in die-formed frame insure uniform resilience, long life. Burlap is secured over springs. Sisaltex pad is applied over the burlap, and curled hair over the Sisaltex. A layer of felted cotton, with extra thickness along front edge for added softness, and covering material, complete the upholstery.



AMERICAN
SEATING



"ALL-PURPOSE"
TUBULAR STEEL

FOLDING CHAIRS



No. 70—Spring-Arch Seat (with arm-rests). Arched serpentine springs in die-formed frame insure utmost comfort, long life. Extra padding along front edge of seat, for extra softness. Seat is 16" wide, 17 $\frac{1}{4}$ " deep. Choice of colors.

No. 90—Spring-Arch Seat (with arm-rests). Independent-fold chairs made with spring-arch construction, and upholstered like the No. 70. Seat folds independently of the chair frame. Clamped together in units of two or three. Choice of colors.

ALL UPHOLSTERED CHAIRS AVAILABLE
WITH PLAIN OR UPHOLSTERED BACKS.



No. 53TA—Shaped Steel Seat. With tablet-arm attachment. Posture seat is 15 $\frac{1}{2}$ " wide, 15 $\frac{1}{4}$ " deep. Tablet-arm measures 12 $\frac{1}{4}$ " x 21 $\frac{7}{8}$ ", available in plywood or plastic. Arm may be raised for entrance or exit.

No. 73—Shaped Steel Seat. With independent-fold. Posture seat is 15 $\frac{1}{2}$ " wide, 15 $\frac{1}{4}$ " deep; folds independently of the chair frame, as in American chair No. 80 (see page 20). This chair is also available with arm-rests.

No. 60—Spring-Arch Seat. Chair is constructed like the No. 70, with spring-arch seat and same upholstery, but without arm-rests. Extra padding along front edge of seat, for extra softness. Choice of colors.

No. 53 — Shaped Steel Seat. 15½" wide, 15¼" deep, with edges rolled under and reinforced. Designed for rugged use, indoors or out. Also available with arm-rests.

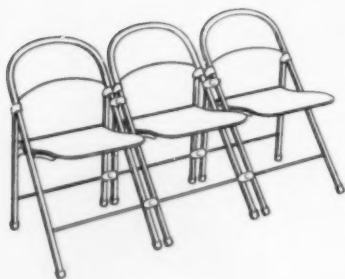


No. 54—Birch-Plywood Seat. 5-ply birch-plywood seat 15½" x 15¼". Edges rounded, seat lacquered; won't chip or "feather." Frosty-birch finish on Diploma Blue frame (shown); or light-walnut seats on beige frames. Also with arm-rests.



ACCESSORIES

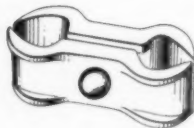
Designed for use with American Seating Folding Chairs



No. 17050-10 Clamps for sectional grouping, are available for locking American Seating Folding Chairs in sections, 1¼" apart. This is a "must" for maintaining alignment in large installations.

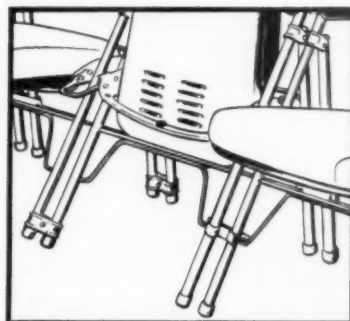
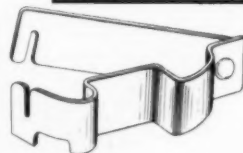


Bar Clamps for sectional grouping, automatically lock folding chairs in groups of 2, 3, or 4, 1" apart. Also available are individual clamps which fasten over legs at bottom and top.

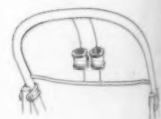


No. 12264 Cast-Iron Clamp — used to connect all American Seating Folding Chairs; 20" on center.

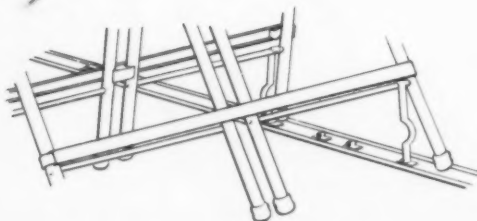
No. 19749 Latch Clamp — used to connect all American Seating Folding Chairs where speed in setting them up is a necessity; 20" on center.



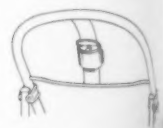
Book-Rack is made of rod, specially designed, snapped over rear cross of folding chairs. Holds novels and pamphlets 1½" thick. Bottom is open.



Communion-Cup Holders are riveted to spring-steel plate which snaps rigidly into place between back panel of chair, held by upper and lower edges of the panel.



Steel Threshold permits locking folding chairs into position at ends of rows, separating rows 30" back to back. Available in sections to accommodate three or more rows. Spring-steel hooks snap easily over chair stretchers.



Ashtray is made of metal cover and snuffer. Riveted spring-steel plate, which snaps between upper and lower edges of back panel. Finish matches chair.

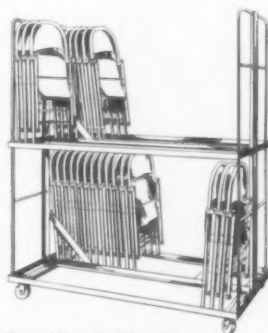
No. 53V—Vinyl-covered Seat.
Same construction as No. 53, but with heavy-duty vinyl film permanently bonded over steel seat. Has long life as well as leather-like warmth to the touch. Attractive texture and appearance. Also with arm-rests.



No. 56—Upholstered Seat.
Formed birch-plywood seat is padded, and upholstered in imitation leather; choice of five colors. Seat size $15\frac{1}{2}'' \times 15\frac{1}{2}''$. Also with arm-rests. (Available with padded and upholstered back—No. 57.)



ALL-STEEL STORAGE TRUCKS

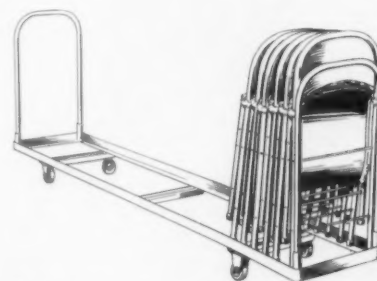
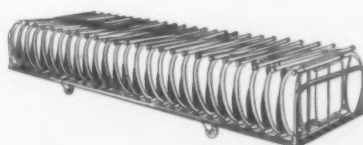


Double-Tier Truck No. 2

Two fixed wheels and two swivel casters; rubber-tired. Capacity: 100 Series 50 chairs with or without arms; or 40 deep-spring chairs without arms; or 36 independent-fold chairs without arms. Dimen.: $38\frac{1}{4}''$ wide, $67''$ long, $81\frac{1}{4}''$ high, loaded. Net wt.: 180 lbs.

Double-Tier Truck No. 15 (not shown)

Same as No. 2, but wider, with $4''$ dual casters. Capacity: 64 Series 50 chairs; or 40 deep-spring chairs; or 36 independent-fold chairs; all with arms. Dimen.: $41\frac{1}{4}'' \times 67''$, $80\frac{3}{4}''$ high loaded. Net wt.: 185 lbs.



Truck No. 11

Two fixed wheels and two swivel casters; rubber-tired. Removable tubular end handles. Capacity: 38 Series 50 chairs without arms or 24 with arms; or 16 deep-spring chairs with or without arms; or 14 independent-fold chairs with or without arms; or 19 No. 53-54 chairs with tablet-arms. Dimensions: $100'' \times 19\frac{1}{4}'' \times 41''$ high when loaded. Net wt.: 65 lbs.

Understage Truck No. 14 (shown at left)

Two fixed wheels, two swivel casters; rubber-tired casters set at $32''$ on center. End handles removable. Capacity: 51 Series 50 chairs without arms or 32 with arms; or 21 deep-spring chairs with or without arms; or 18 independent-fold chairs without arms; or 26 No. 53-54 chairs with tablet-arms*. Dimensions: $38''$ wide, $132\frac{1}{2}''$ long, $23\frac{3}{4}''$ high when loaded. Net wt.: 100 lbs.

*Over-all height when so loaded, $28\frac{3}{4}''$.



No. 16-001 Bodiform Chair. The beauty and unmatched comfort of BODIFORMS will attract increased attendance to auditorium programs; improve interest in school activities. What's more, BODIFORM design saves space, cuts maintenance costs, simplifies housekeeping. Shown with 123 aisle standard.



No. 16-001 TA Bodiform Tablet-Arm Chairs. Plywood tablet-arm (also in AMEREX® plastic) immediately available for taking notes; automatically and safely folds under seat when occupant rises. Shown, high-aislelight 119 aisle standard. Other standards available with or without aislelights.

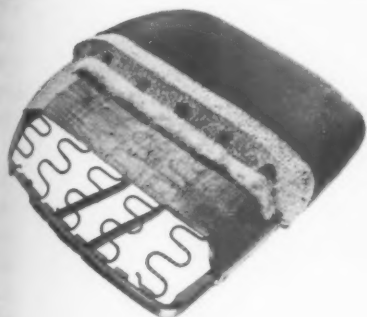
BODIFORM® full-upholstered auditorium chairs, available in 19" to 22" widths, are attractive and provide matchless, sustained comfort, thanks to wider-than-usual seats with proven spring-arch construction, controlled resiliency, and body-fitting backs. Long life and low maintenance costs are assured by manufacturing skills and experience without equal elsewhere in the seating-manufacturing industry.

The automatic, silent, uniform, safetyfold seat action, with self-lubricating bronze hinge bearings, allows more room for passing and sweeping. Fabric upholstery contributes importantly to good acoustics by compensating for seat variances. No tacks are used.

BODIFORM all-steel, die-formed backs are scientifically contoured to the human body—broad at shoulders, form-fitting at waist, distributing the weight of occupant's back over entire area. All standards are of gray iron, for sturdiness and quietness. Middles have turned-in feet, eliminating stumbling hazards. Standards available for floor or riser attachment. Backs and seat foundations Bonderized, then electrostatically sprayed for extra thickness of the special-formula, alkyd-urea enamel on edges receiving greatest wear; then baked.



No. 16-040 Bodiform Chair. Deluxe spring-back assures sustained comfort. Concealed, self-lubricating hinges—standard on all BODIFORM chairs—stay clean, can't pinch fingers. All-steel back, including inner upholstery panel, assures long trouble-free service. Shown with 129 aisle standard.



BODIFORM®

SPRING-ARCH SEAT

Arched serpentine springs in die-formed steel frame insure uniform resilience, long life. Individually molded, cored-resilient-foam pad has extra thickness along front and rear edges for added softness; won't "bottom." Also: with curled hair and felted-cotton padding.



No. 16-036 Chairs. Feature plywood backs with aluminum channel molding; seats full-upholstered. Have sturdy gray-iron standards. Shown with 123 aisle standard, and riser-attached middles for balconies. The seat is self-folding.



No. 11-156 Chair. 5-ply back, and 5-ply formed-plywood seat; silent, ball-bearing hinges, and solid arm-rests. Shown with 103 aisle standard. Aluminum molding available for back and seat. Available with either regular or self-folding seat.



No. 16-157 Chair. Same design and high quality as No. 16-036 chair, but with 7-ply, 3/4" back and addition of writing-shelf attached to back. Shown with 129 aisle standard. The seat is self-folding.



No. 14-106 Chair. Full-upholstered, with deep-BODIFORM chair-back and spring-arch, manually-operated steel back, with soft front. Also available with plywood back. With or without aislelights. Shown with 109 aisle standard. Seat is not self-folding.

● **TYPICAL BODIFORM AUDITORIUM INSTALLATIONS**

E. C. Glass High School, Lynchburg, Va.; Longview High School, Longview, Tex.; Seneca Falls High School, Seneca Falls, N. Y.; Long Beach Jr. High School, L. I., N. Y.; Richfield High School, Richfield, Minn.; Charles Parcels High School, Grosse Pointe, Mich.; Cairo High School, Cairo, Ga.; Freeport Jr. High School, Freeport, Ill.; Palo Alto High School, Calif.



American Seating's more than 70 years of church-furniture experience contributes to the fine workmanship found in our carefully planned, appropriately designed, and liturgically correct church finishings. Among these products are pulpit and communion sets; and the famed and beautiful, durable American BODIFORM® one-piece, postural pew, also upholstered church chairs. If you are planning to remodel or build your church or chapel, let our skilled designers and engineers assist you. Please feel free to write us for help in developing chapel and church furniture ideas to fit your budget.



The newest thing in church and chapel seating—comfortable BODIFORM Upholstered Pews. Available in harmonizing colors.



No. 10026 Speaker's Stand. Makes an excellent class memorial. Ample space on top panel for inscription. Reflects the good taste of group that presents it. Every auditorium needs such a stand. Of selected birch, durably lacquered in choice of three standard finishes—walnut (L-48), light walnut (L-89), or natural birch (L-31). Open back; two shelves. Width, 24"; 16" deep, 44" high. Lamp is an optional accessory.

STADIUM SEATING



University of Kentucky Field House, Lexington



No. 103 Riser-type Stadium Seat.

Standards attached to riser—more passing room, faster cleaning. Steam-bent cradleform seats and deep-curved backs, both made of heavy, solid-wood slats. Sturdy gray-iron standards; quiet ball-bearing hinges on seat. Durable enamel on wood and metal. Also: No. 93 Floor-type. Both types with either regular or self-folding seats; latter for easier, safer ingress and egress.

C O L O R

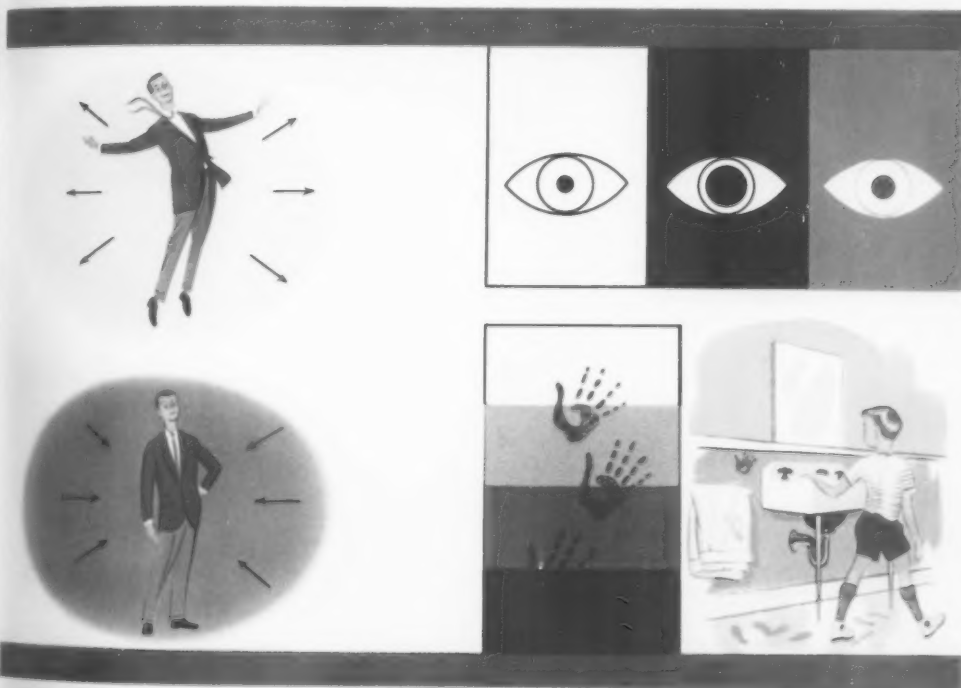
The application of good scientific practice

Comprehensive studies have revealed a number of sound basic principles for the use of color in schools. To begin with, vision is at its best where all areas in the field of view—walls, floors, furniture—have an approximately equal brightness. Although extreme contrasts may look attractive, the pupil opening of the human eye may be unduly taxed, resulting in fatigue and loss of clear visibility.

The American Seating Functional Palette, shown to the right, offers an ideal series of colors for school use. (Larger color standards for accurate matching will be submitted on request.) Where the wall color follows the function of the room, efficient and pleasing results may be safely expected.

and cooler colors are desired, such as Pale Green and Pearl Gray. Here the environment will be less aggressive, glare will be reduced and seeing will be at its most comfortable best. Included here would be secondary grades, study rooms, libraries, offices and staff rooms.

Terra Cotta and Soft Blue, shown on the Functional Palette, are suggested for end wall treatments, to afford variety. Such end walls are best at the front of the classroom, faced by pupils, where the slightly deeper tones will reduce contrast with chalkboards and otherwise introduce clearer visibility and visual relaxation. Terra Cotta may be used in rooms having north and east exposure—Soft Blue in rooms having south and west exposure.



For example, warm luminous colors, such as Sunlight Yellow and Coral Pink, will draw attention to the room at large. They invite a certain emotional release and are highly desirable for kindergartens, elementary grades, cafeterias, gymnasiums, shops, recreation areas, washrooms, corridors.

On the other hand, where visual and mental concentration is expected, softer

Ceilings in general should be white, or a pale tint of the wall color, to assure ample light reflection and the reduction of shadows.

For practical reasons, the school plan should include few rather than many colors. And these should be soft in quality both for a right visual effect as well as to resist soiling and abuse.

THE AMERICAN
SEATING COMPANY

functional school palette
for the decoration of
new and old buildings

pale green

sunlight yellow

coral pink

pearl gray

terra cotta

soft blue

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EASY ACTION
FLOOR PROTECTION

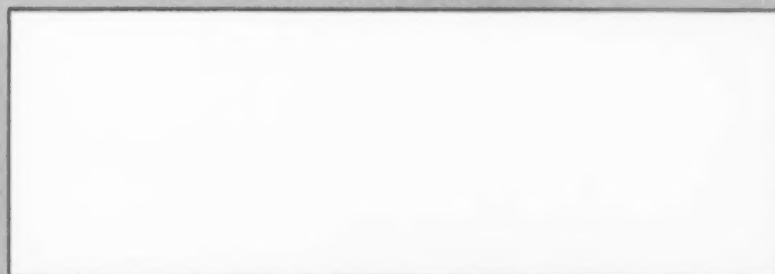
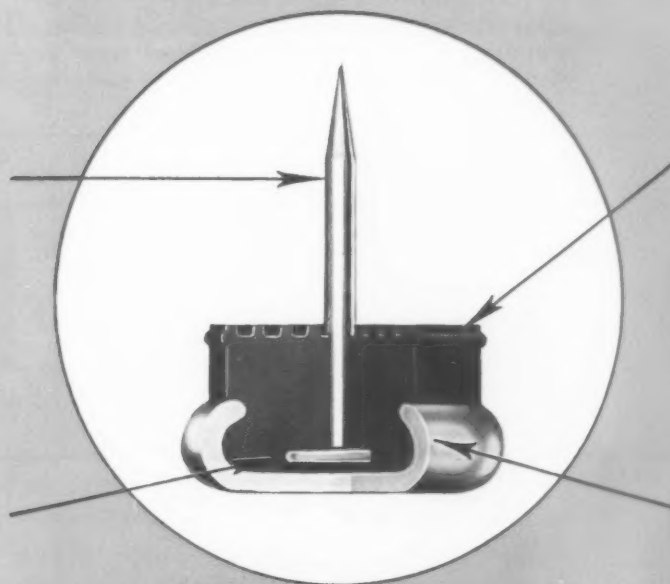
*Every piece of School furniture
needs RUBBER CUSHION GLIDES*

DRIVE NAIL,
... ATTACHMENTS
AVAILABLE FOR
ALL TYPES OF
FURNITURE.

RESILIENT
RUBBER CUSHION

SPECIAL LARGE NAIL
HEAD . WHEN APPLIED
DOES NOT CONTACT
METAL BASE.

EXTRA HEAVY GAUGE
FLAT STEEL BASE . . .
FULLY HARDENED
FOR LONG WEAR.



CATALOG NO. ASU-58



Bassick "BASGO" RUBBER CUSHION GLIDES

NAIL TYPE FOR WOOD



Constructed with a heavier gauge flat steel base having a greater degree of hardness than competitive glides, providing longer life and easier sliding qualities. A live rubber cushion affords complete cushioning and maximum quietness. NO METAL TO METAL CONTACT BETWEEN BASE AND NAIL WHEN APPLIED.

Recommended for use on chairs, tables and other pieces of furniture where protection of floors, easy sliding and elimination of noise is desirable. Ideal for use on hard surface floors (tile, concrete, terrazzo, wood, etc.) and all composition floor coverings.

The sharp nail drives easily. When being applied to small legs or in hard wood, a slight lead hole will facilitate the installation.

SPECIFICATIONS

Base Diam.	Catalog Numbers		Size recommendation — use the size with the largest diam. base the leg will accommodate, for greatest floor protection especially on linoleum, asphalt tile or other resilient floor coverings.	Unit Packing		Carton Packing	
	Nickel Finish	Stainless Steel		Sets Per Box	Weight Per Box	Boxed Sets	Gross Weight
7/8"	CG-90	CG-90SS		6	3/4 lb.	120	15 lbs.
1 1/16"	CG-91	CG-91SS		6	1 lb.	108	20 lbs.
1 1/4"	CG-92	—		6	1 lb.	72	15 lbs.
1 1/2"	CG-93	—		3	3/8 lb.	36	15 lbs.

SOCKET TYPE FOR WOOD



These glides are for use where chairs and other furniture have already been equipped with gripneck caster sockets. It is an easy matter to remove the caster and insert these quiet, easy sliding rubber cushion glides.

Constructed with a heavier gauge flat steel base having a greater degree of hardness than competitive glides, providing longer life and easier sliding qualities. A live rubber cushion affords complete cushioning and maximum quietness.

SPECIFICATIONS

Base Diam.	Catalog Numbers	Socket Data			Standard Finish	Unit Packing		Carton Packing	
		Bore Diam.	Bore Depth	Standard Socket		Sets Per Box	Weight Per Box	Boxed Sets	Gross Weight
1 1/4"	CG-392	3/8"	1 1/2"	No. 3 1" Track Plate	Nickel	1	7 oz.	25	12 lbs.
1 1/2"	CG-393	3/8"	1 1/2"			1	9 oz.	25	15 lbs.

MACHINE SCREW TYPE FOR METAL



SAME CONSTRUCTION AS NAIL TYPE SHOWN ABOVE EXCEPT WITH 8-32 MACHINE SCREW STEM PROJECTING 3/8" ABOVE RUBBER CUSHION.

FURNISHED STANDARD WITH NUT AND LOCK WASHER. WHERE THESE ARE NOT REQUIRED OMIT SUFFIX DESIGNATION X23 FROM CATALOG NO.

SPECIFICATIONS

Base Diam.	Catalog Numbers	Stem Data	Standard Finish	Standard Packing
7/8"	CG-290X23	8-32 Machine Screw With 3/8" Projection, Nut and Lock Washer	Nickel	Bulk
1 1/16"	CG-291X23			
1 1/4"	CG-292X23			
1 1/2"	CG-293X23			

FOR SCHOOL AND INSTITUTIONAL CHAIRS AND FURNITURE

D-4/Ba

The rubber expanding adapters are pliable enough to fit commercial variations of inside tubing diameters and are available in sizes to fit practically all of the popular sizes of tubing used on metal furniture. They provide a secure, simple, practical method of easy application. The tight fit of the rubber expander is an added noise and vibration reducer. They will not work loose under any normal operating conditions.

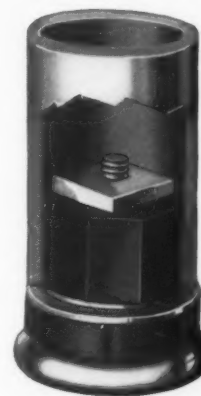
The adapter is expanded by turning the base of the glide by hand forcing the rubber adapter to bulge and fill the tubing, giving full length contact. The adapter can take all side shocks with no danger of bending or loosening.

Recommended for tables, stands, chairs and all metal furniture with tubular legs meeting the floor in a vertical position.

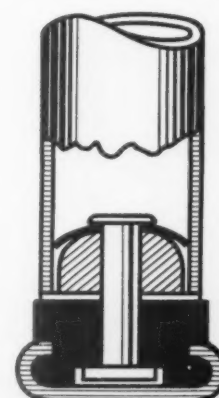
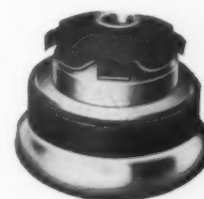
SPECIFICATIONS

Base Diam.	Catalog Numbers	For Outside Tubing Diameter		For Inside Tubing Diameter		Size Recommendation	Standard Finish	Weight Per Set	Standard Packing
		Nominal	Gauge	Nominal	Exact				
3/8"	CG-890 5/8"	5/8"	18	17/32"	.527"	Check Inside Diameter of Tubing to Determine Correct Glide for Application.	Nickel	3 oz.	Bulk
	CG-890 3/4"	3/4"	18	21/32"	.652"			3 oz.	
	CG-890 7/8"	7/8"	18	23/32"	.777"			3 oz.	
1 1/16"	CG-891 1"	1"	16	23/16"	.902"			4 oz.	
	CG-891 1 1/16"	1 1/16"	18	21/16"	.964"			4 oz.	
1 1/4"	CG-892 1 1/4"	1 1/4"	16	1 1/8"	1.120"			6 oz.	

FOR METAL TUBING WITH RUBBER EXPANDING ADAPTERS



"UMBRELLA" TYPE FOR METAL TUBING



These glides are specially designed for institutional and school use on metal chairs and cannot be removed except with tools. The umbrella-shaped steel spring retainer surmounts a dome shaped spacer bushing. Any attempt at removal, except with mechanic's tools, causes the umbrella-shaped retainer spring to bite deeper into the metal of the chair leg.

The design of Bassick rubber cushion glides prevents metal to metal contact between equipment leg and slide base thus eliminating noise and chatter when equipment is moved. SEE APPLICATION CUT-AWAY AT RIGHT.

SPECIFICATIONS

Base Diam.	Catalog Numbers	For Tubing		Standard Finish	Weight Per Set	Standard Packing
		Outside Diam.	Inside Diam.			
3/8"	CG-590 3/4"	3/4"	5/8"	Nickel	3 1/4 oz.	Bulk
1 1/16"	CG-591 1" XLM	1"	.870"		5 1/2 oz.	

*This size supplied standard with leg mount.

BASSICK CASTERS

The Bassick Company is the largest manufacturer of casters in the world. The items listed on this page are representative types often used in schools. Complete catalog data and recommendations for any specific installation will be gladly furnished on request.

CASTERS FOR SCHOOL PIANOS



PLATE AND SOCKET TYPES—DOUBLE WHEEL

Low overall height, full floating ball bearing Diamond-Arrow casters specifically designed for easy movement of pianos in schools and protection to floors.

SPECIFICATIONS

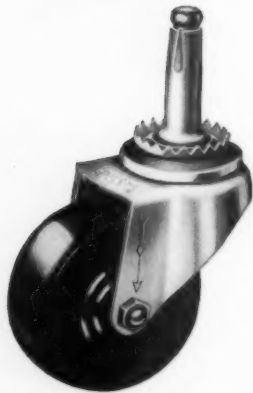
Wheel Diam.	Tread Width	Overall Height Stem Caster	Overall Height Plate Caster	Size of Top Plate	Bolt Hole Spacing	Size of Bolt Holes
2"	1 5/8"	2 5/8"	2 16/16"	2 3/4 x 3 3/4"	1 3/4 x 3"	1 1/2"

CATALOG NUMBERS

Wheel Diam.	Catalog Numbers	Type Caster	Type Wheel	Weight Per Set-lbs.
2"	9006x2-66	Stem	Baco	3 1/2
2"	9006	Plate	Baco	4



CASTERS FOR CHAIRS



DIAMOND-ARROW

The largest selling quality office chair caster — because of economy combined with top quality. The patented two level full floating ball race construction provides maximum ease of swiveling. Wheels have self-lubricating bearings.

The "Baco" soft rubber tread wheel is recommended for school use.

Catalog Numbers	Wheel Diam.	Tread Width	Overall Height	Bore for Socket	Weight Per Set
7696	1 5/8"	3/4"	2 1/8"	3/8"	21 oz.
9696	2"	1 3/16"	2 1/2"	3/8"	25 oz.

The casters listed are for wood chairs or furniture but can also be supplied with stems for all types of metal chairs.

CASTERS FOR DOLLIES AND TRUCKS



SERIES "68" "DIAMOND-ARROW"

The swivel truck casters listed below have the patented two level full-floating ball bearing construction which provides the utmost in easy action combined with economy. The numbers listed are supplied with the "Baco" soft rubber tread floor protecting wheels, self-lubricating bearings, and thread guards.

These are ideal for chair trucks and miscellaneous school service trucks. The Bassick Company manufactures various sizes and types of truck casters for every purpose. Complete catalog and information will be furnished on request.

SPECIFICATIONS

Wheel Diam.	Load Cap. Each	Catalog Numbers	Tread Width	Overall Height	Plate Size	Bolt Hole Spacing
2 1/2"	80	2686-1	1 1/8"	3 5/16"	2 3/4" x 3 3/4"	1 3/4" x 3"
3"	100	3686-1	1 5/16"	3 13/16"	2 3/4" x 3 3/4"	1 3/4" x 3"
4"	125	4686-1	1 5/16"	5 1/16"	3 1/8" x 4 1/8"	2 3/8" x 3 7/8"
5"	125	5686-1	1 5/16"	6 1/16"	3 1/8" x 4 1/8"	2 3/8" x 3 7/8"

COL R FIBERGLASS



an important NEW contribution to the educational environment by *Brunswick*



CREATE THE ENVIRONMENT

WITH THE *Brunswick* COLOR

EDUCATORS . . . ARCHITECTS . . . COLORISTS KNOW THAT
COLOR IS IMPORTANT IN TODAY'S SCHOOLS.

Color—proper color—properly used—is a recognized important aspect of a good learning environment. The proper color in furniture has an integrating effect upon the whole environment—ties together the various colors and materials.

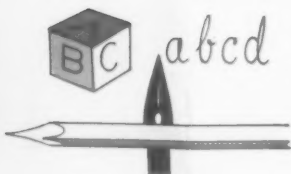


Color for Learning in the Fourth Grade. A neutral-to-stimulating environment. Note use of greens to offset strong sunlight exposure. Yellow in cabinets adds a touch of stimulation as does conference table arrangement.



Color for Learning in the Arts and Crafts. A more stimulating environment appropriate to creativity and movement. Neutral colors serve as non-clashing display for various materials.

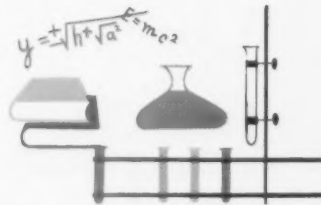
WHATEVER THE EDUCATIONAL LEVEL. Brunswick Color Helps Create An Educationally Purposeful Environment for Learning.



In Primary Schools—you can create the desired environment of intimacy, warmth, informality—the security of a homelike situation—through the use of natural building materials and gay colors.



In Upper Elementary and Junior High Schools—you can create the desired environment of exploration, guidance, cooperation and mutual community of interests through the use of proper materials and subtle colors.



In High School and College—you can create the desired environment of purposeful achievement, concentration, responsibility, growing maturity and life planning through the use of carefully selected building materials and sophisticated colors.

NT FOR LEARNING

R FOR LEARNING PROGRAM

Children are naturally colorful. They respond to a bright, cheerful environment. They like the unrestrictive qualities of the colors of nature brought into the classroom. They react to the moods created by properly color-planned conference, study and activity areas.

Brunswick "Color for Learning" furniture has an integrating effect upon the whole environment. It ties together colors and textures used in the school plant into an educationally purposeful environment.



In the Arts and Crafts Room. A stimulating room approach and movement. Neutral background (including cabinets) for display for various colored paintings and projects.



Color for Learning in the Kindergarten. Furniture and cabinet colors lend spacious, outdoor feeling to room. Color also used to delineate both quiet and stimulating areas depending upon the work or play to be done.

WHEREVER USED . . . Classrooms . . . Libraries . . . Cafeterias . . .
Shops . . . Offices . . . Public Areas . . . Brunswick Color for Learning
Helps Create An Educationally Purposeful Environment for Learning.

In Classrooms—a good visual and psychological environment appropriate to the activity.

In Libraries—a good visual environment and a quiet atmosphere conducive to concentration and study.

In Cafeterias—an appropriately relaxing, appetizing environment in which to eat and socialize.



In Arts and Crafts Rooms—a good visual environment and to promote work organization, designate order.

In Offices—a good conference and business environment replete with friendliness, dignity, orderliness, efficiency and cooperation.

In Public Areas—reflect a warmth of welcome, community interest, purposeful activity and recreation appropriate to the space.



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materials

**BRUNSWICK CHAIRS
AND COMBINATION UNITS**

are available in Fiberglass Colors for Learning and Natural Maple Plywood.

1. **STACKING CHAIR**—in Blue, Green, Red, Yellow, Salmon, Gray. Sizes: 11", 12", 13", 14", 15", 16", 17", 18". 2. **CHAIR DESK**—in Green, Yellow, Salmon, Gray. Adult size. 3. **TABLET-ARM CHAIR**—in Green, Yellow, Salmon, Gray. Adult size. 4. **STUDY-TOP COMBINATION**—in Green, Yellow, Salmon, Gray. Desk Height: 27", 29".



1.



2.

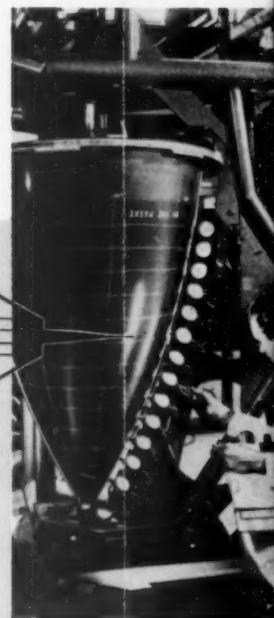


3.

AND NOW... BRUNSWICK FURNITURE—FROM KINDERGARTEN

Brunswick

DEVELOPED AND PRODUCED BY



WRITE OR PHONE for your free copy of the authoritative fact and idea-filled booklet **"Functional Color For The Classroom."**

See how geographic location . . . nearby structures . . . building details . . . room orientation . . . room size . . . room shape . . . type of lighting . . . affects the use of color. Whether you're building a new school . . . remodeling an older school—here is a valuable guide to the better utilization of educationally purposeful color.

THE NEW STANDARD OF QUALITY IN THE SCHOOL FURNITURE FIELD

BRUNSWICK COLOR FOR LEARNING



BRUNSWICK MOVEABLE CABINETS are available with sliding doors in all six Colors: Blue, Green, Red, Yellow, Salmon, Gray.

UNDERGARTEN THROUGH COLLEGE—IS AVAILABLE IN



FIBERGLASS

Researched, developed and produced for specialized use in critical components of sound-barrier breaking jet aircraft, Brunswick Fiberglass is a tested . . . proven and much needed addition to the field of school furniture.

Here is a truly rugged reinforced plastic tested more than five years in our aeronautic research laboratories and in schoolroom use. No other school furniture manufacturer offers fiberglass compounded to withstand as rugged in-use treatment.

Once again, Brunswick brings its outstanding technological skills to serve the needs of American education. Brunswick Fiberglass is, indeed, an industry "First" of unprecedented importance . . . and value!

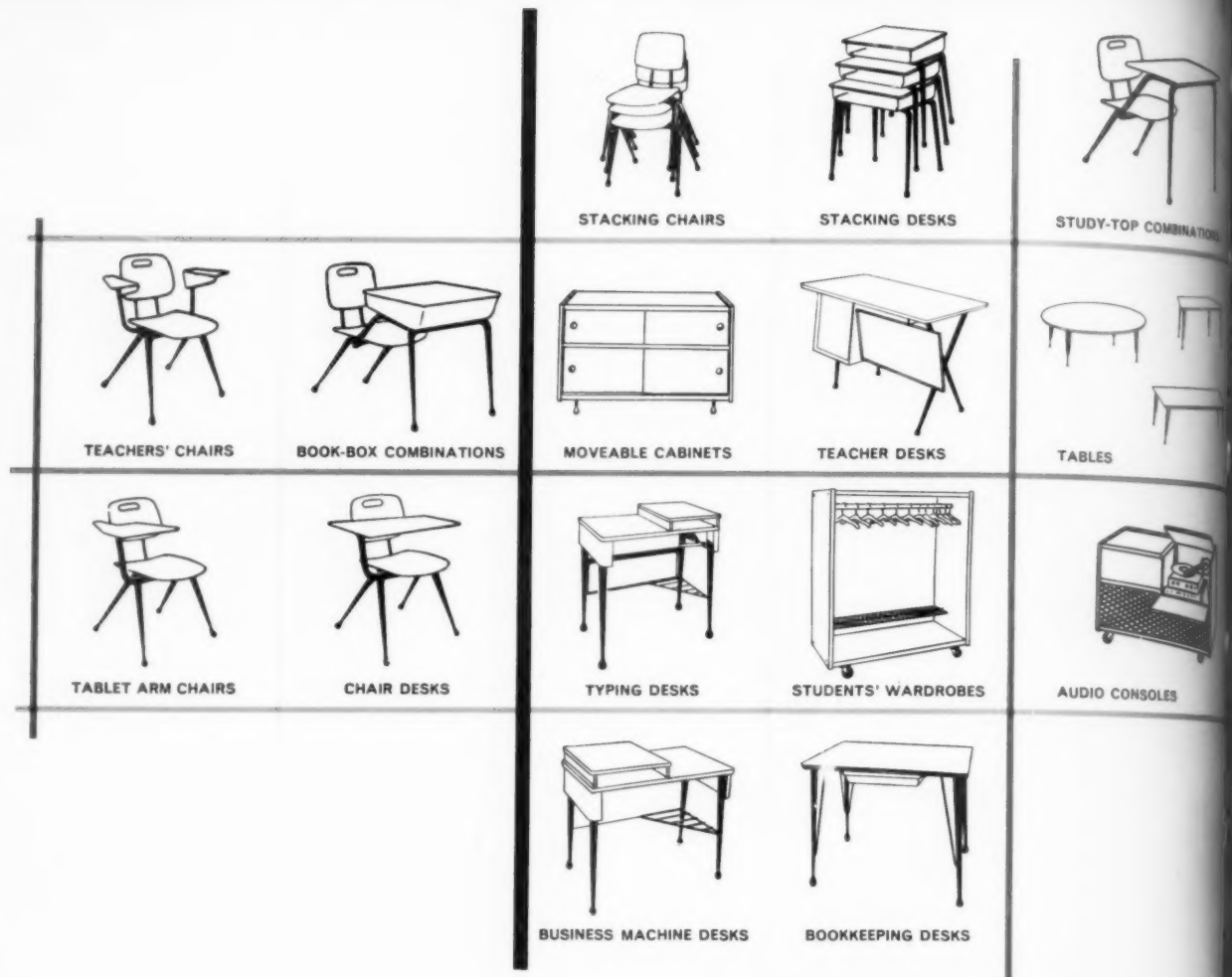


BRUNSWICK FIBERGLASS—a real **Investment Plus** in school furniture value—sits better . . . lasts longer . . . is maintenance free!

- Brunswick Fiberglass is **MAINTENANCE FREE**—won't crack, peel, check or scratch under the most rugged classroom use.
- Brunswick Fiberglass is **EASY TO CLEAN**—washes brilliant new with a damp cloth . . . especially important in cafeterias.
- Brunswick Fiberglass **RETAINS ITS ORIGINAL COLOR**—Pigments developed exclusively for this use will retain original appearance forever.
- Brunswick Fiberglass is **WEATHERPROOF**—may be used outdoors under changing weather conditions . . . is unaffected by dampness or dryness.
- Brunswick Fiberglass is **THE ULTIMATE IN COMFORT**—resilient compound curves in seat and back fit body contours; chairs are proportioned to 8 sizes for kindergarten through college.

FOR LEARNING—BRUNSWICK FIBERGLASS

NETS



Invest in

Brunswick

for better learning... for lasting service

THE BRUNSWICK-BALKE-COLLENDER COMPANY

SCHOOL EQUIPMENT DIVISION

623 South Wabash Avenue, Chicago 5, Illinois

Sales-Service Dealers Throughout the United States



D-4/Col

SCHOOL FURNITURE

by

Columbia

NEW

Flairline

AND

STANDARD LINE

FLAIRLINE CHAIR
Series CNP

by *Columbia*

An absolutely new design and construction of the basic classroom chair modeled both for appearance and comfort. Versatile in design, this chair can be easily moved and stacked, and will not mar classroom walls. Silent, oversized glides of case hardened steel keep chair at constant level, and will not mar floors.

COLOR OPTIONS



Columbia Coral



Columbia Green



Columbia Taupe

**Columbia Chrome
over Copper, Nickel**

SPECIFICATIONS: FLAIRLINE CHAIR

LEGS 1" x 18 gauge legs tapered to a graceful $\frac{3}{4}$ ".

BACK $\frac{3}{4}$ " x 16 gauge for maximum support.

SEAT Molded plywood with compound bends for greater comfort and durability.

BACK Molded plywood with 22" radius, positioned for comfort and correct posture.

GLIDES Oversize, 1-3/16" diameter of case hardened steel.

SIZES 11", 12", 13", 14", 15", 16", 17", 18".

NOTE: 11", 12", 13" chair legs fabricated from $\frac{7}{8}$ " x 18 gauge tubing; back, 11/16" x 18 gauge.

COLORS Taupe, Green, Coral, or Chrome.



Flairline

THE INNER VALUE OF SCHOOL FURNITURE

BY *Columbia*

Columbia's clean-lined, functional approach to design is instantly apparent. The contemporary colors are highest quality enamels baked-on over a Duridized undercoat for permanently bonded durability. The heavy-duty chrome finish is applied over copper nickel base. Our hardwood, plywood, Fibresin and plastic parts are unexcelled. All these advantages are obvious. But the BACKBONE of modern school furniture is the TUBING and therein lies Columbia's matchless *inner value*, a superiority that gives rugged strength for long, long service.

Columbia's leadership in steel tubing technology is based on 82 years

experience in building bicycle frames of such rigid strength and light weight that Columbia long since took its place as America's finest quality bicycle. All this long experience, continuous research and exclusive manufacturing processes for making tubing from the best heavy gauge, cold rolled steel are poured into Columbia School Furniture. Columbia precision bending, cleanly brazed joints and graceful swageing are basic structural values built into every item in the comprehensive range of styles and sizes presented here. And you'll find that every item not only meets a specific classroom need but has been priced to meet today's school budgets.

FLAIRLINE OPEN FRONT DESK

Series DNF

This all-new open front desk with its graceful tapering lines is designed for long life in the classroom. The stamped pencil groove inside the book box allows a maximum of writing surface.

SPECIFICATIONS: FLAIRLINE OPEN FRONT DESK

FRAME Desk legs are fabricated from resistance welded 1" x 18 gauge S.A.E. 1010-1015 cold rolled steel tubing swaged to a graceful $\frac{3}{4}$ " taper. Desk stretcher is fabricated of 11/16" x 18 gauge cold rolled steel oxyacetylene brazed to the legs ensuring maximum strength and support for the book box.

BOOK BOX 20 gauge steel, one piece, deep drawn box with embossings and stamped pencil groove to ensure a minimum of vibration and a maximum degree of sturdiness.

TOP 18" x 24".

OPTIONS Fibresin or Plywood.

GLIDES Oversize, swivel 1-3/16" diameter of case hardened steel.

METAL FINISH Taupe, wear resistant baked enamel applied over thoroughly cleaned and treated metal unit.

OPTIONS Green, Coral, Chrome.

SIZES 21", 22", 23", 25", 26", 27½", 29", 30".

NOTE: 21", 22", 23" desk frames are fabricated from ¾" x 18 gauge tubing.



FLAIRLINE
ALL-PURPOSE CHAIR
Series CTN

by *Columbia*

A chair designed for comfort and utility especially adapted to a teacher's chair, conference room, lecture hall, office, lounge, or lobby. Its sturdy construction insures durable good looks.

SPECIFICATIONS: FLAIRLINE ALL-PURPOSE CHAIR

LEGS 1" x 18 gauge steel tapered to a graceful $\frac{3}{4}$ ".

BACK $\frac{3}{4}$ " x 16 gauge steel for maximum support.

ARM SUPPORTS $\frac{3}{4}$ " x 16 gauge steel covered by contour bent molded plywood for appearance, strength and comfort.

SEAT Molded plywood with compound bends for greater comfort and durability.

BACK Molded plywood with 22" radius, positioned for comfort and correct posture.

GLIDES Oversize, 1-3/16" diameter of case hardened steel.

SIZES 16" — 17" — 18".

COLORS Taupe, Green, Coral and Chrome.



TSNF



CTN

Flairline



DLNX

FLAIRLINE SMALL
TABLET ARM CHAIR

Series TSNF

A graceful, sturdy combination of both comfort and maximum writing surface is incorporated in the design of this tablet chair that is suitable for lecture hall, study hall, or classroom.

SPECIFICATIONS:

FLAIRLINE SMALL TABLET ARM CHAIR TSNF

LEGS 1" x 18 gauge steel tapered to a graceful $\frac{3}{4}$ ".

BACK $\frac{3}{4}$ " x 16 gauge steel for maximum support.

ARM SUPPORTS $\frac{3}{4}$ " x 16 gauge steel covered by contour bent molded plywood for appearance, strength and comfort.

SEAT Molded plywood with compound bends for greater comfort and durability.

BACK Molded plywood with 22" radius, positioned for comfort and correct posture.

TABLET 11" x 20" tablet of plastic laminated plywood or Fibersin positioned to give correct writing angle and maximum of writing surface.

GLIDES Oversize, 1-3/16" diameter of case hardened steel.

SIZES 16", 17", 18".

COLORS Taupe, Green, Coral and Chrome.

FLAIRLINE LIFT
LID DESK

Series DLNX

This all-new lift lid desk with its graceful tapering lines is designed for sturdiness and durability. Solid one-piece top with new friction-type hinges insure long life and a minimum of maintenance.

SPECIFICATIONS:

FLAIRLINE LIFT LID DESK DLNX

FRAME Desk legs are fabricated from resistance welded 1" x 18 gauge S.A.E. 1010-1015 cold rolled steel tubing swaged to a graceful $\frac{3}{4}$ " taper. Desk stretcher is fabricated of 1 1/16" x 18 gauge cold rolled steel and oxy-acetylene brazed to the legs ensuring maximum strength and support for the book box.

BOOK BOX 20 gauge steel, one piece, deep drawn box with embossings and stamped pencil groove to ensure a minimum of vibration and a maximum of degree of sturdiness.

TOP 18" x 24". Plastic or Plywood.

GLIDES Oversize, swivel, 1-3/16" diameter of case hardened steel.

METAL FINISH Taupe wear-resistant baked enamel applied over thoroughly cleaned and treated metal unit.

OPTIONS Green, Coral, Chrome.

SIZES 21", 22", 23", 25", 26", 27 1/2", 29", 30".

NOTE: 21", 22", 23", desk frame fabricated from 7/8" x 18" gauge tubing.

COMBINATION CHAIR DESK Series CD

Combines desk and chair into one adjustable unit providing the ultimate in posture control and efficiency. High front leg brace permits easy sweeping, prevents students from marring enamel by resting feet on it. Wide, deep bookrack under the seat minimizes unit size. Tablet tops in choice of solid Northern hardwood, laminated plastic or Fibersin.

FRAME: 1" x 18 gauge tubing, styrene brazed.

TABLET: 22" wide x 17" deep x 1 1/2" overall x 13/16".

BACK: 16" long x 6" with 20" coil.

SEAT: 16" wide x 15 3/4" long.

BOOKRACK: Cold-rolled 1/2" x 3/4" steel, 12 3/4" long x 10" wide x 7" deep.

SIZES: 16", 17", 18".



CD

COMBINATION CHAIR DESK Series CDM

Has outstanding features as Series CD, with extra-large 18" x 24" tablet.



CDM

STANDARD LINE



L

TABLE LEGS L by *Columbia*

A smartly styled Columbia offering. Apply to any shape or size table top with six wood screws. Cold-rolled steel plate 4" x 4" gives solid support. Very strong leg of 18 gauge 1 3/8" tubing is swaged to 3/4" O D bottom. Available in lengths to fit the following overall table heights: 21", 22", 23", 25", 26", 27 1/2", 29", 30". Finish options: taupe, green and coral enamel or heavy duty chrome.

STANDARD LINE



DL

SCHOOL FURNITURE

by *Columbia*



TL

LIFT LID TABLE DESK Series DL

Friction-type hinges prevent lid banging. Simple adjustment features insure lengthy service and easy maintenance. Light in weight, yet strong and sturdy. 20-gauge steel apron with full-length pencil trough brazed to tubular frame. 20-gauge steel shelf formed and embossed for greater strength, less vibration.

TOP DIMENSIONS: 18" x 24" x 13/16".

SIZES: 21", 22", 23", 25", 26", 27 1/2", 29", 30".



TL

SMALL TABLET ARM CHAIR Series TL

Note-taking writing area for lecture use. Except for one-tube support for the tablet, this chair is the same as series TL. (upper right opposite page)

TABLET: 12" wide x 13" deep x 26 5/8" overall x 13/16".

BACK: 16" long x 6" wide with 20" radius.

BOOKRACK: 1" x 18 gauge tubing; four 3/8" x 18 gauge crossbars.

SIZES: 16", 17", 18".

LARGE TABLET ARM CHAIR Series TL

Ample writing area for study or lecture use provided by extra-large tablet arm rigidly supported by twin tubes of 1" x 16-gauge tubing. Flared front legs offer maximum unit stability. "U"-type bookrack designed for maximum capacity and strength. Choice of solid Northern hardwood or Northern hardwood plywood seats and backs. Tablet top of solid Northern hardwood or laminated plastic.

TABLET: 20" wide x 14" deep x 27" overall x 13/16".

BACK: 16" long x 6" wide with 20" radius.

BOOKRACK: 1" x 18-gauge tubing; four 3/8" x 18-gauge crossbars.

SIZES: 16", 17", 18".

SCHOOL CHAIR STACKING Series C-M

Designed to encourage correct posture and give maximum student comfort. Basic for classrooms, it's also ideal for cafeteria or library. Constructed of 1 1/16" x 18-gauge double-row tubing for maximum strength. Northern hardwood seats and backs. Also available with 6" Bookrack, with 1/2" x 18-gauge tubing designed for maximum capacity and strength.

BACK: 14 3/4" long x 6" wide with 20" radius.

SEAT: Deeply saddled. 16" wide x 15 3/4" long.

SIZES: 11", 12", 13", 14", 15", 16", 17", 18".



SPIN FRONT TABLE DESK Series D

Available in eight sizes to fill the needs of every classroom. 20 gauge steel apron, steel shelf and full-length rolled front edge to increase stability and eliminate vibration.

FRAME: 1" x 18 gauge tubing, oxyacetylene brazed.

TOP DIMENSIONS: 18" x 24" x 18 1/2".

BOOK BOX: 17" x 23" x 5" over-top.

SIZES: 21", 22", 23", 25", 26", 28", 29", 30".

OPTION: Tops available grooved in place.

STANDARD LINE

SCHOOL CHAIR WITH BOOKRACK

Series C-M-BR

Designed to encourage correct posture and give maximum student comfort. This chair is ideal for cafeteria use. It may be stacked for convenience, and the back will not mar walls.

SPECIFICATIONS: STACKING CHAIR

FRAME 1" x 18 gauge tubing oxyacetylene brazed at every joint.

BOOKRACK 1/2" x 18 gauge tubing.

BACK Steam-bent solid Northern hardwood 16" long x 6" wide with 20" radius.

SEAT Solid Northern hardwood deeply saddled, 16" wide x 15 3/4" deep.

GLIDES 1" diameter, self-aligning rubber cushioned, of case-hardened steel.

METAL FINISH Taupe, wear-resistant baked enamel applied over thoroughly cleaned and treated metal unit, or bright chrome finish.

WOOD FINISH A combination of priming wood sealer and topcoats, with proper sanding between coats, carefully applied to protect and enhance the natural hardwood pattern and grain.

SIZES 16", 17", 18".



EXTRA-VALUE FEATURES OF SCHOOL FURNITURE BY

Columbia

EVERY PIECE IS LIGHT IN WEIGHT, YET AMAZINGLY STRONG AND STURDY!

FRAMES — Super-strong tubing, oxyacetylene brazed at every joint.

GLIDES — Noiseless oversize rubber-cushioned glides of case-hardened steel.

METAL FINISH — Handsome wear-resistant baked enamel applied over specially treated metal. In Taupe, Green or Coral.

WOOD FINISH — Proper combination of priming wood sealer and topcoats enhances natural hardwood pattern and grain.

DESK TOPS & TABLE ARMS — Solid Northern hardwood with rounded edges and corners. Also available in laminated plastic or Fibersin.

CHAIR SEATS AND BACKS — Solid Northern hardwood or Northern hardwood plywood. Seats deeply saddled for comfort. Backs are scientifically steam bent.



Classroom, Public School System,
South Dartmouth, Massachusetts



Classroom, Saint Ann's School, Waterbury, Connecticut



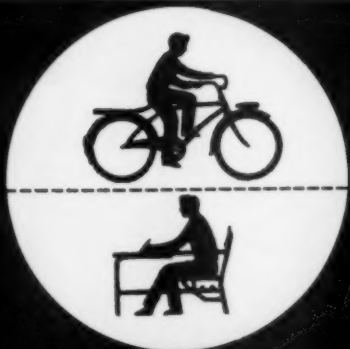
Boy's Study Hall and Classroom, Notre Dame
Catholic High School, Bridgeport, Connecticut

RECENT INSTALLATIONS OF SCHOOL FURNITURE

by *Columbia*



Columbia School Furniture is made by the Westfield Manufacturing Company in this modern plant in Westfield, Massachusetts. Literally millions of Columbia bicycles have rolled off the assembly lines and into the homes of American youngsters from coast to coast. And today, students see the same familiar and respected name on the finest of school furniture made in the same plant.



THE WESTFIELD MANUFACTURING COMPANY
Westfield, Massachusetts

Columbia

GENERAL ELECTRIC

Textolite®

Desk and Table Surfacing

D-4/GE



A.I.A. File No. 35-C-12

School Superintendents
report on the use of

GENERAL ELECTRIC TEXTOLITE®

desk and table surfacing

Experience proves it . . . and here's what they say about General Electric TEXTOLITE®



—J. T. Bryant, Supt., Wellman Independent School District, Wellman, Texas



—Thomas W. White, Supt., Bridgeport Township Schools, Bridgeport, Michigan



—Marvin Williams, Supt., Roosevelt Public Schools, Lubbock, Texas



—O. H. TeVault, Supt., Community Unit C-3, Martinsville, Illinois



—Arthur Upton, Supt., Harrison County Schools, Clarksburg, West Virginia

"Best writing surface we have ever discovered"

"We have used 210 school desks with G-E Textolite tops for two years. We are well pleased with the color that is added to the rooms, and believe the desks should last at least fifteen more years. These tops give the best writing surface we have ever discovered on any desk. If we buy more desks, they will be surfaced with Textolite."

"Have much greater potential life"

"... had 117 Textolite-surfaced desks in use during the past school year. These desk tops show scarcely any evidence of wear . . . It is my opinion that these desk tops have a much greater potential life than the conventional desk tops. Since they do not scratch or mar, there is no maintenance cost. The furniture is not only serviceable, but it provides an even writing surface and is pleasing to the eye."

"No repairs after three years"

"The Roosevelt Rural High School has in use 205 Textolite-surfaced desks, 34 cafeteria tables, and 4 teacher's desks. These pieces have been in service for three years. We have had no repairs on any of these surfaced tops and have done nothing in the way of upkeep, except wipe them clean. The surfaces remain perfectly smooth, and I can foresee no need of repairs or replacement for many, many years."

"100% satisfied"

"We purchased 100 units with Textolite surfacing for the past school year. We are 100% satisfied because:

(1) Maintenance is almost effortless and I can not detect any unsatisfactory results from spilling of ink, or acids from perspiration from hands or arms of students. (2) I am adding 100 more units for next year, and they will have Textolite tops. What recommendation could be better?"

"Add much to the index of brightness in the classroom"

"We purchased approximately 9,000 movable chair desks with the G-E Textolite plastic surface desk tops. We are very much pleased after a year of use. So far, we have no maintenance. We find they give an even writing surface and add much to the index of brightness in the classroom. We will continue to use this type of desk top in the future."

NEW NELA PARK STUDIES SHOW TEXTOLITE® SPECIAL DESK PATTERNS REDUCE EYESTRAIN UP TO 58.8%

Reflectance studies by General Electric lighting engineers, at Nela Park, have produced findings of vital interest to everyone engaged in school administration. They show that General Electric Textolite desk patterns can reduce, by as much as 58.8%, the classroom eyestrain caused by improper light reflectance. Textolite surfacing is another quality product of General Electric . . . the company which has consistently developed better lighting for our schools!

Over 70 patterns and colors

General Electric Textolite is offered in over 70 appealing patterns and colors . . . all with the same long-wearing, easy-cleaning properties. In addition, General Electric offers a complete line of Textolite adhesives, cleaners, seam and filler kits, and self-edging Textolite in a variety of patterns and colors. A General Electric Textolite distributor or fabricator is a one-stop source for all your surfacing needs!

D-4/GE

Wide range of sheet sizes cuts waste

General Electric Textolite surfacing comes in sheet sizes to suit any modernizing job. With this wide range of sizes, your distributor or fabricator can save you important money by minimizing waste on any job you want done!

Why Textolite stays new-looking longer

Like all General Electric products, Textolite surfacing is continually subjected to exhaustive quality tests. These are some of the laboratory results that protect your investment:

Resistance to cigarette heat 144 seconds
Resistance to boiling water no effect
Resistance to hot grease no effect
Color fastness to light no effect
Boil delamination—2 hours no effect
Stain tests no effect from alcohol,
gasoline, acetone, carbon tetrachloride, fly
spray, detergents, soap, olive oil, household
ammonia, citric acid (10%), coffee, mustard,
wax crayon, urea (6.6%), shoe polish, ink.

TEXTOLITE DESKTONE PATTERN, designed specially for use in schools, comes in soft shades of Tan, Gray, and Green. Also available: practical Desk pattern in Shale, Sage, and Tan.

TEXTOLITE BIRCH PATTERN is one of 10 natural-looking wood grains—adds the warmth of wood without its costly upkeep.

TEXTOLITE LINEN PATTERN comes in Tan, Green, Gray, Red, and Yellow—adds color to any room. Resists scratches and stains; cleans with a swish.

Resurfacing with General Electric Textolite® can improve every room in your school



BEFORE: This science room in a Cleveland school had been in use for some years. Class after class of students had left their marks on the work tables. They were scratched, pitted, and difficult to clean.



AFTER: Resurfaced with General Electric Textolite, the work tables look like new. They provide a perfect writing surface, resist scratches and stains, clean with a damp cloth. And they will continue to look new for years to come!



ON DORMITORY DOORS, and all vertical surfacing, General Electric Textolite is really rugged! Scuff marks, stains, fingerprints just wipe off with a swish of a damp cloth. No periodic refinishing or painting—upkeep and maintenance costs are cut to the minimum.

Where can you use General Electric Textolite[®] in your school?



IN HOME ECONOMICS CLASSROOMS, General Electric Textolite is really at home. Spattering grease won't burn or stain it; and a damp cloth is all that's needed to keep it sparkling clean!



IN THE LUNCHROOM, General Electric Textolite surfacing keeps tables clean, bright, and new-looking. It resists the ordinary scratching of tableware—can't be stained by spilled foods!

Where to buy it

ORIGINAL EQUIPMENT featuring General Electric Textolite surfacing is offered by many of the finest school-equipment manufacturers. Their use of Textolite surfacing testifies to the quality and lasting value of their products.

MODERNIZATION of old units, with General Electric Textolite surfacing, can be performed by fine fabricators in your area. For full details, contact your local Textolite distributor (listed in the Yellow Pages); or call your nearest General Electric Regional Sales Office.

Textolite[®]
LAMINATED SURFACING
GENERAL ELECTRIC

FORM NO. T-CDL-445—LITHO IN U.S.A.—KC-B8

General Electric Regional Sales Offices...

California
10234 Lakewood Blvd.
Downey, Calif.
1229 Burlingame Bldg.
Burlingame, Calif.

Florida
P. O. Box 1599
Rutland Bldg.
St. Petersburg, Fla.

Georgia
Room 487
795 Peachtree St.
Atlanta 8, Ga.

Illinois
840 South Canal Street
Chicago 80, Ill.

Maryland
Room 203, Americana Bldg.
4606 East-West Hwy.
Bethesda, Md.

Massachusetts
Room 231, 140 Federal Street
Boston 1, Mass.

Michigan
Room 311, 2211 Woodward Ave.
Detroit 1, Mich.

Minnesota
2524 Hennepin Ave.
Minneapolis 6, Minn.

Missouri
2619 McGee Trafficway
Kansas City 8, Mo.

New Jersey
444 Terrace Ave.
Hasbrouck Hts., N. J.

New York
570 Lexington Ave.
New York 22, N. Y.
600 Jefferson Rd.
Rochester 18, N. Y.

Ohio
7030 Reading Rd.
Cincinnati 37, Ohio
6886 Pearl Road
Cleveland 30, Ohio

Texas
Room 108, 6617 Snider Plaza
Dallas 5, Texas

Laminated Products Department
Coshocton, Ohio

**Presenting a new concept in
auditorium chair styling and comfort**

The TC 500 "Futura" by ...



The "Futura's" modern, streamlined appearance is a new departure in auditorium chair styling. The graceful, sloping standards are made of heavy gauge, ovalized steel. Exceptionally strong, they are narrow and open for ease of cleaning and maintenance as well as unrestricted ingress and egress.

Maximum comfort is provided by the deeply curved, heavily padded back and coil spring seat with formed rubber or rubberized hair cover. The seat-to-back ratio is scientifically proportioned for correct, relaxed posture. Massive arm rests give comfortable support for adjoining occupants. In both comfort and design features, the "Futura" is a major advance in auditorium seating.

(Patent Pending)



Trim Line Lifting-Lid Desk and Chair units for comfort and color in modern classrooms

Available in seven graded sizes with a choice of HeyWoodite solid plastic or solid wood seats, backs and desk tops, these units are constructed to scientifically determined dimensions for correct posture and maximum comfort. Light in weight, yet extremely sturdy, they offer flexibility and convenience for classrooms from primary grades through high school.

Book boxes are available in five distinctive colors, each of which harmonizes beautifully with either solid wood or HeyWoodite. Lively color and modern design combine to form a pleasing atmosphere for classroom work.



Reliability is the most important part of every Heywood-Wakefield bid. 132 years of experience in the furniture business . . . the nation's most scientific research and highly developed skills in the school furniture field . . . make Heywood a dependable source for new equipment or replacement units.

Temporary Seating

can be comfortable, too,

with Deluxe Folding Chairs by...

Heywood-Wakefield folding chairs provide an economical, convenient means of obtaining temporary seating capacity without sacrificing comfort. Having the same scientifically proportioned comfort features as fixed auditorium chairs, the T 300 shown below has a resilient spring cushion and generously padded back.

The seat folds independently of the frame, allowing for ease of ingress and egress with back-to-back spacing of rows as close as 30". The frame, made of heavy gauge $\frac{3}{4}$ " tubular steel, is welded and riveted to form a sturdy integral unit as durable as it is comfortable. Chairs stack compactly for quick, space-saver storage.

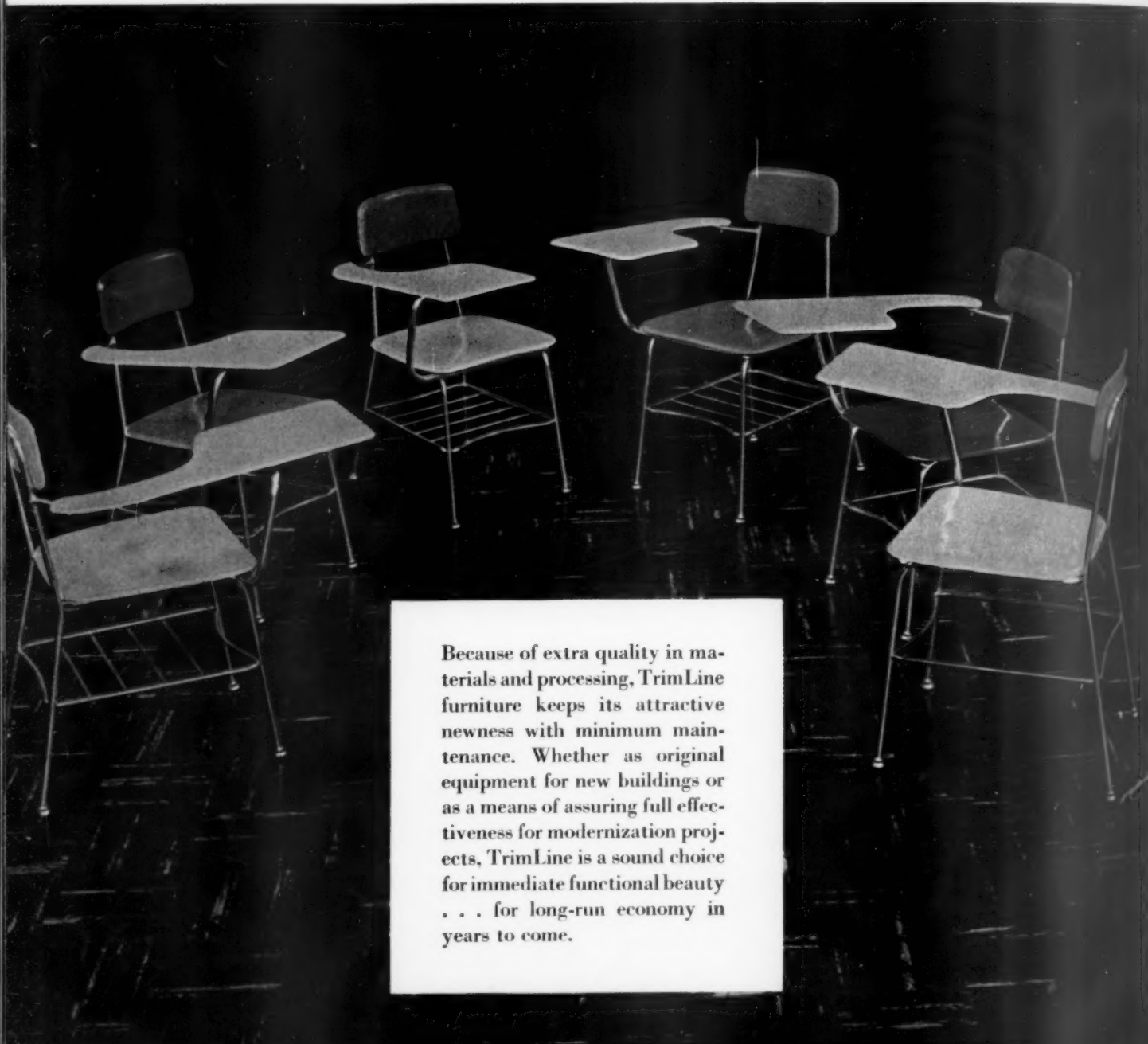


TrimLine Tablet Arm Chairs for maximum flexibility in lecture halls and upper grade classrooms

Light in weight and easily grouped or regrouped for varying activities of high school and college classes, TrimLine Tablet Arm Chairs are available in 17" and 18" seat heights with or without bookshelves beneath. Tablet arms are available in HeyWoodite solid plastic, solid wood or laminated plastic; seats and backs in HeyWoodite solid plastic or solid wood. Where additional work

area is required, chairs are available with extra-large tablet arms, 20" x 28".

TrimLine's heavy-duty $\frac{5}{8}$ " tubular steel, lifetime plated with durable chrome, has a light, smart appearance. Resistance-welded for exceptional strength, chairs have no bolts or sharp edges. Super-silent glides with large diameter, tempered steel floor caps are permanently attached.



Because of extra quality in materials and processing, TrimLine furniture keeps its attractive newness with minimum maintenance. Whether as original equipment for new buildings or as a means of assuring full effectiveness for modernization projects, TrimLine is a sound choice for immediate functional beauty . . . for long-run economy in years to come.

**Whatever the classroom,
start your planning with this basic
all-purpose Chair and Desk unit by...**



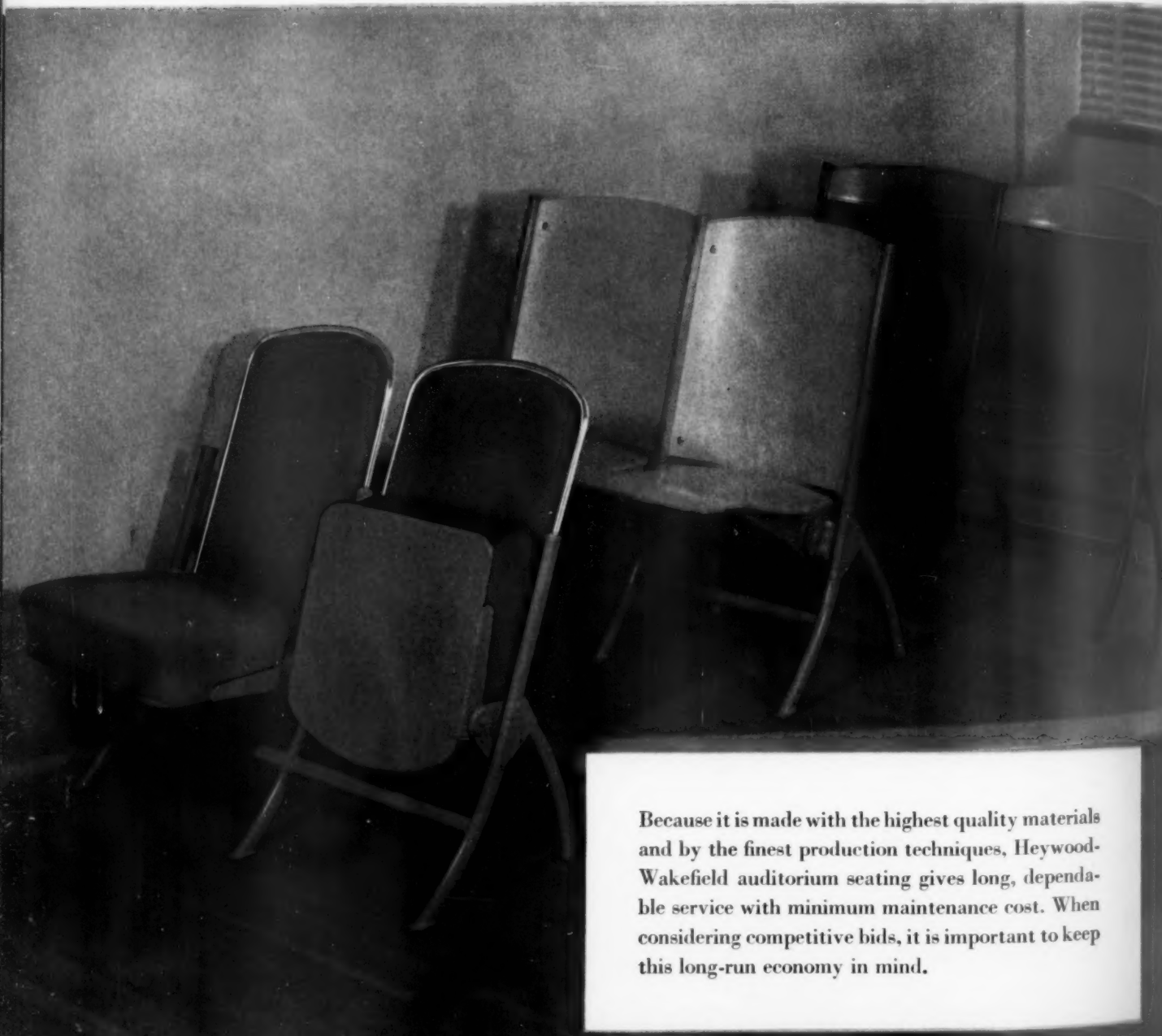
An ideal, lightweight unit to meet ever-changing classroom requirements, the Trimline lifting-lid desk and chair are as functional as they are beautiful. The one-piece lid has two, fully enclosed, adjustable friction hinges which hold the lid in any position and permit silent closing. Legs criss-cross beneath book box giving added strength and, since they do not extend through the box, affording greater book box capacity. Desks with HeyWoodlite solid plastic, laminated plastic or solid wood tops are available in nine graded sizes from 20" to 30". Chairs with HeyWoodite solid plastic or solid wood seats and backs are available in eight graded sizes.



**Heywood Deluxe
Portable Seating
offers comfort
and durability
comparable to fixed
auditorium seating**

An outstanding feature of the entire line of Heywood-Wakefield portable chairs is their oval tubular steel frame construction. All joints are welded to make the frame a sturdy, integral unit which will stand up under continuous use. Ample splay of the legs assures absolute stability. Seats on all models operate independently of frames, allowing for closer back-to-back spacing and ease of ingress and egress.

Whether deep coil spring seat or plywood model, each chair has been properly proportioned to provide maximum comfort.

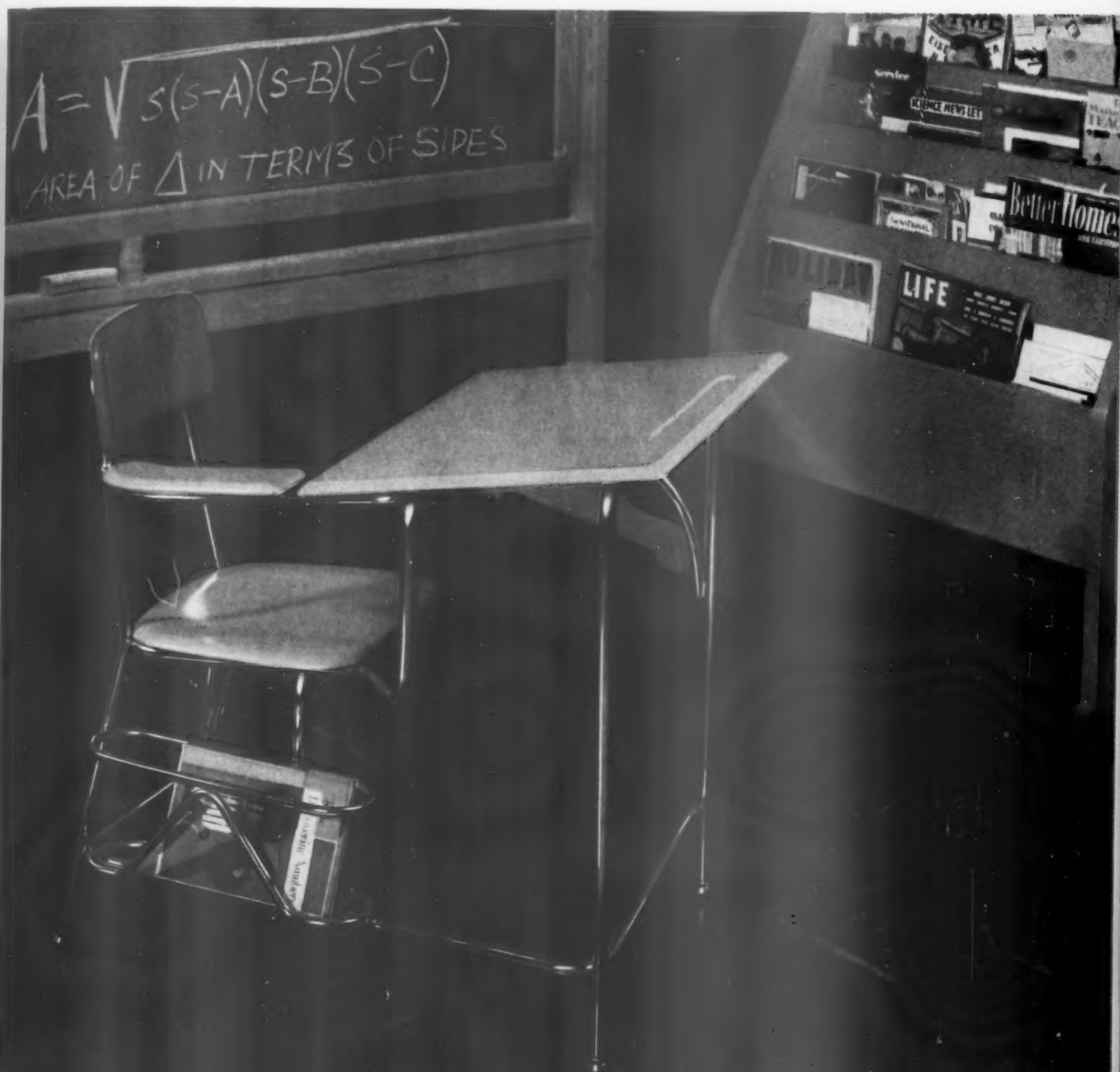


Because it is made with the highest quality materials and by the finest production techniques, Heywood-Wakefield auditorium seating gives long, dependable service with minimum maintenance cost. When considering competitive bids, it is important to keep this long-run economy in mind.

Ideal for high school
and college classrooms

Trim Line Study-top Chair units by...

Lighter than the separate desk and chair, this single unit may be moved about easily for group discussions and activities. The 18" x 24" study-top provides a comfortable, desk-size working surface. Available in seven graded sizes, with or without bookrack. Seat and back in HeyWoodite solid plastic, with a choice of five distinctive colors, or in solid wood. Study-top in HeyWoodite solid plastic, laminated plastic or solid wood.

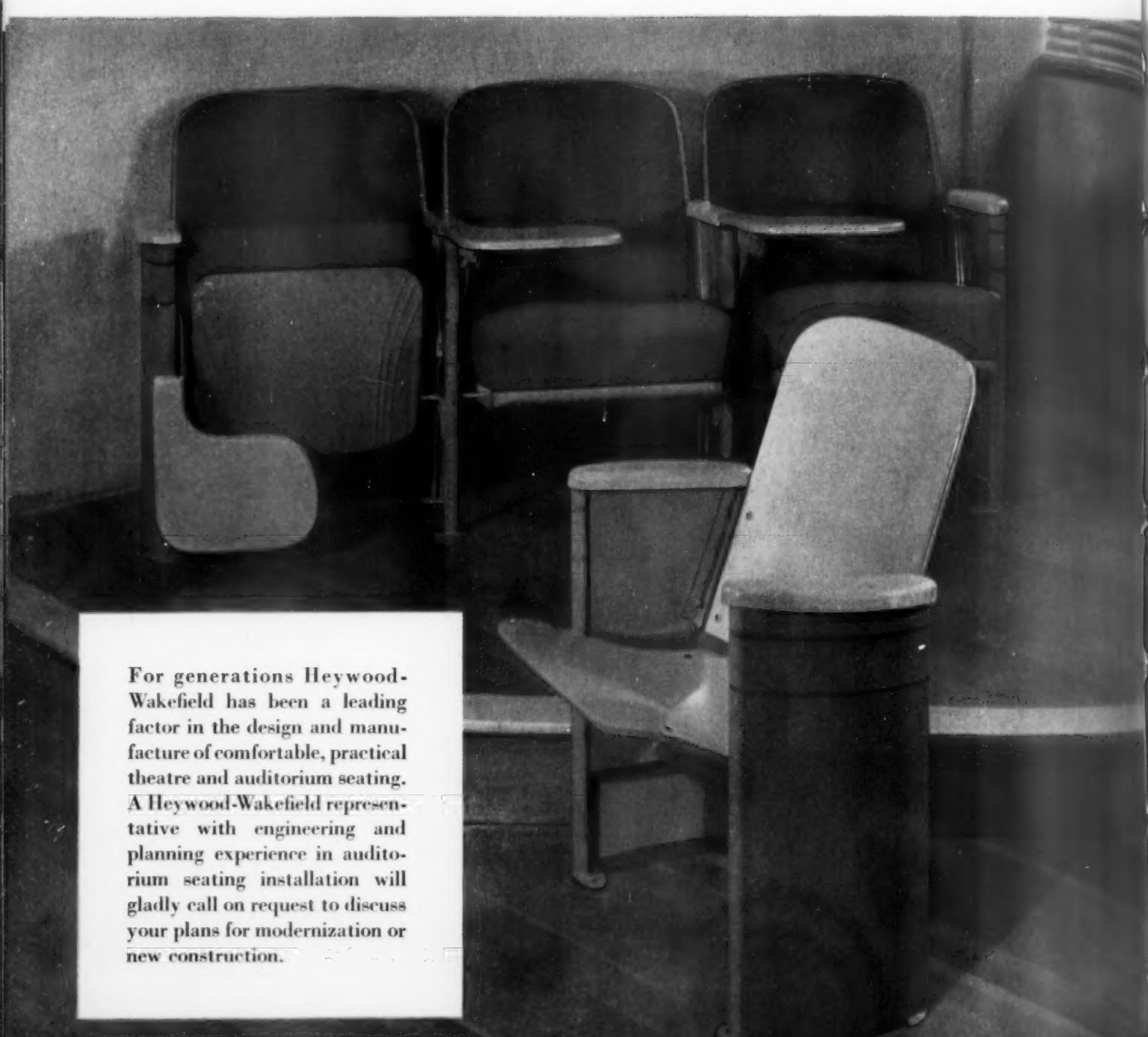


**Whatever the
seating budget,
there's a Heywood
Auditorium Chair
tops for comfort
and serviceability**

The TC 705 "Aristocrat," shown in the foreground, has been carefully designed to provide full comfort and lasting durability at a modest outlay. Like all Heywood-Wakefield auditorium chairs, it has all-steel aisle and center standards, steel hinges and back fastenings.

Thorough-going comfort is assured by the well-padded back and the 16-coil spring seat of the TC 700 "Encore" shown in the rear.

All Heywood auditorium chairs are available with folding tablet arms which swing out of the way when not in use to permit easy ingress and egress. Whenever the auditorium must also serve as a lecture hall, this chair is a sound choice.



For generations Heywood-Wakefield has been a leading factor in the design and manufacture of comfortable, practical theatre and auditorium seating. A Heywood-Wakefield representative with engineering and planning experience in auditorium seating installation will gladly call on request to discuss your plans for modernization or new construction.

**For lowest maintenance
and replacement costs specify**

Trim Line School Furniture by . . .

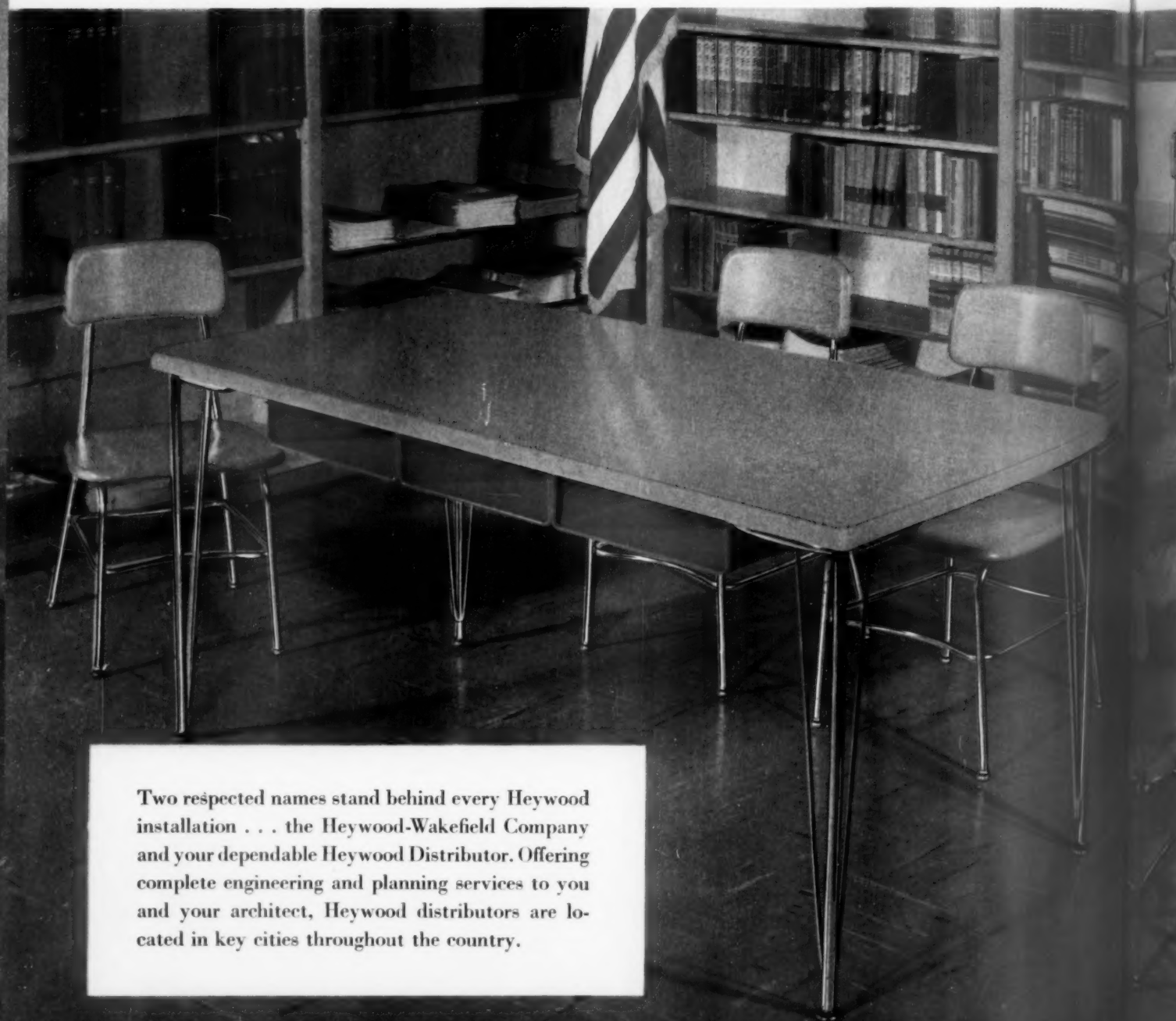
Heywood's resistance-welded, heavy-duty chrome-plated frames combined with virtually indestructible HeyWoodite solid plastic seats, backs and desk tops form the most durable, child-proof furniture your school system can buy. The initial cost is more than repaid in low maintenance and long life.

A basic unit for every class from kindergarten through college, the open front desk is available in nine graded sizes . . . chairs in eight sizes. Chair seats, backs and desk tops are available in solid wood as well as HeyWoodite solid plastic.



TrimLine Tables for library, cafeteria and general classroom use

TrimLine tables are available in nine graded heights from 20" to 30" and in sizes from 24" x 48" to 36" x 72" with plywood or laminated plastic tops. Steel book compartments, two or three section, are optional. The chrome-plated tubular steel legs with solid rod, hairpin-type braces provide exceptional strength and rigidity. Also available with pedestal-type adjustable legs.



Two respected names stand behind every Heywood installation . . . the Heywood-Wakefield Company and your dependable Heywood Distributor. Offering complete engineering and planning services to you and your architect, Heywood distributors are located in key cities throughout the country.

**For colorful,
indestructible furniture, specify
HeyWoodite solid plastic by...**



An exclusive Heywood-Wakefield development, HeyWoodite is a high density, solid, thermosetting plastic. Under heat and extreme pressure, the chair backs, seats and table tops are molded in one piece in a single operation. HeyWoodite is not a laminate . . . each piece is the same solid, virtually indestructible material through and through. Even the color, unlike ordinary surface coatings, remains the same throughout.

For your school, HeyWoodite (patents pending) means furniture with greater durability, greater beauty . . . furniture which will be more functional and which will enforce measurable maintenance and replacement economies for years to come.



Outstanding examples of Heywood comfort . . .
the "SCHOLASTIC" and
"ENCORE" Auditorium Chairs

The "Encore," illustrated at the right, features a well-padded back and 16-coil spring seat with spring edge assuring complete comfort regardless of occupant's position in chair. The one-piece, die-formed steel back panel gives full protection to the seat in both raised and sitting positions. The "Scholastic," to the left, is a budget model of the "Encore" with the same comfortable seat construction. On both chairs, the all-steel rolled edge protects the top and sides of the upholstery fabric.



*Write today for your complete catalog
of Heywood-Wakefield classroom and
auditorium seating.*

**SCHOOL FURNITURE
DIVISION**

Menominee, Michigan
Gardner, Massachusetts
Newport, Tennessee
Orillia, Ontario, Canada

Samsonite



CLASSROOM FURNITURE • DESIGNED FOR
COMFORT • COLOR • STRENGTH • MOBILITY
STUDENT CHAIRS (PAGES 4-5) • DESKS (PAGES 6-7)
ACTIVITY TABLES (PAGES 8-9) • TEACHER'S
DESKS (PAGES 10-11) • FEATURES AND FULL
INFORMATION WITH SPECIFICATIONS

SHWAYDER BROTHERS, INCORPORATED



Samsonite



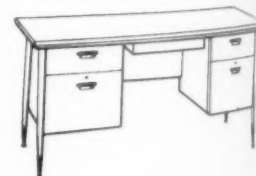
Classroom Furniture

In a SAMSONITE classroom, **everything** is cheerful . . . No longer is the central bulk of the room a drab island surrounded by pleasant wall colors. Rather, the classrooms present an invigorating harmony of room and content.

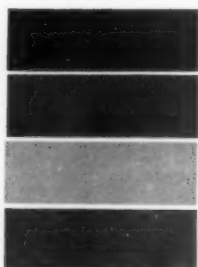
This transformation is not due to color alone. It is **integrated** design — the visual rhythm of repeated curves — the promise of comfort — the invitation of informality — in short **colorful mobility**. These units not only look well together, but work well together to create the most flexible classrooms in history. SAMSONITE furniture lends itself to any arrangement, any color or unit mixture — any desired grouping.

Here is colorful mobility, needed by teacher and pupil alike.

Here is creative education expressed in furniture . . .
at a cost lower than that of most outmoded designs!



Samsonite Colors



All colors have been painstakingly selected to blend or contrast effectively with classroom colors nationally in use. They mix-match harmoniously in pairs or in other combinations.

Samsonite



Construction Features

TUBULAR STEEL FRAMES

Durable steel frame provides maximum strength, subtracts weight.

RESISTANCE WELDED JOINTS

Metal joints are made in a specially designed machine and are as strong as the frame itself.

UNIFORM ENAMEL COVERAGE

Enamel is electrostatically deposited on bonderized metal. Non-chalking and highly resistant to abrasion and chipping.

ROLLER-SWAGED LEG TAPER

Tapered metal "spats" camouflage scuffs and mopmarks; provide clean sharp start for frame color.

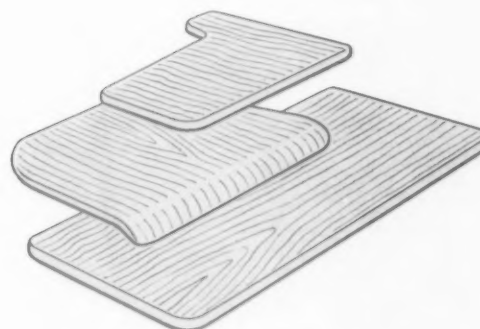
SILENT SWIVEL GLIDES

Polished steel glides cushioned in live rubber for silence, positive floor contact.



PIVOTED FIBRE GLASS BACKS

Exclusive two-point suspended pivoting chair backs compound-curved for maximum comfort, perfect posture.

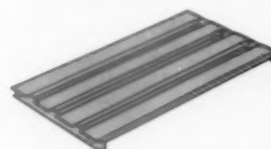


CHAIR SEATS • TABLETS • TABLE and DESK TOPS

Contour-curved chair seats of plywood or textured vinyl-clad steel. Tops of desks, tablets and tables in plastic laminate. Water resistant adhesives.

STEEL RACKS • BOXES

Chip resistant enamel. Clean-out holes in boxes, which are one-piece steel stampings. All covers and edges rounded.

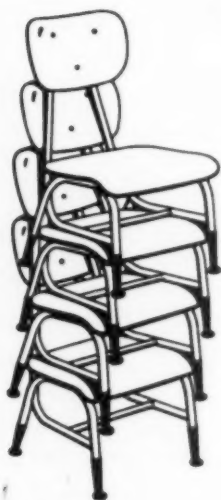


Student Chairs



The SAMSONITE Student Chair, with its exclusive compound curved pivoting back support, provides the ultimate in alert-postured comfort. This unique back support, in carefully proportioned relationship with an extra-large contour seat, assures less fatigue, less restlessness, and more attention.

Frame construction is of electrically welded tubular steel, with tapered metal "spats" and silent, rubber cushioned swivel glides. All sizes available in reinforced molded plastic back with 5-ply maple or birch seats. 16, 17 and 18 inch heights are also available with permanently bonded textured grey or tan vinyl-clad steel seats and backs. The colors used in SAMSONITE school furniture are the result of the most extensive survey ever made of recommendations and practices in the use of color in classrooms.



STACKING

Chairs may be readily and securely stacked.



BOOK RACK

Front and side access book rack. Optional on 16", 17", 18" chairs only.



CHAIR BACK

Back support pivots on two-point swivel suspension. Plastic contact point assures silent action. Back provided with hand grip for easy movement.



STYLE, CODE NUMBER FORMULA

1000-00					
	HEIGHT	FRAME COLOR	BACK	SEAT	BOOK RACK
1 indicates STUDENT CHAIR	10"		2 pivot		1 no rack
	11"		grey plastic	plywood	2 book rack
	12"		(vinyl-clad only on		1 book rack
	13"		16", 17", 18" heights)		only on
	14"		5 pivot	vinyl-clad	16", 17", 18"
	15"	6 Grey	vinyl-clad brown	brown	heights)
	16"		6 pivot	vinyl-clad	
	17"		vinyl-clad grey	grey	
	18"				

EXAMPLE: 1176-62: Student Chair, 17" height, grey frame, textured grey vinyl-clad seat and back, book rack.

Samsonite



with Right or Left

Tablet Arm

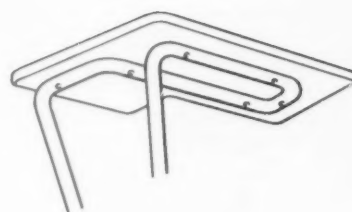
Plastic laminate arm provides a generous writing surface which supports arm in natural writing posture.

BOOK RACK
(optional)

with Right or Left

Tablet Desk

Engineered for easy writing.
Plastic laminate tablet.
Tilted to minimize fatigue.



TABLET SUPPORTS

Tablet arm and desk supports made of continuous length steel tubing. Cantilever distributes stresses evenly.

STYLE, CODE NUMBER FORMULA

1000-000

	HEIGHT	FRAME COLOR	BACK	SEAT	BOOK RACK	TABLET UNIT
1 indicates STUDENT CHAIR	16"		2 pivot		1 no rack	1 no tablet unit
	17"		grey plastic	plywood	2 book rack	2 right tablet arm
	18"		5 pivot			3 left tablet arm
		6 Grey	vinyl-clad brown	vinyl-clad brown		4 right tablet desk
			6 pivot			5 left tablet desk
			vinyl-clad grey	vinyl-clad grey		

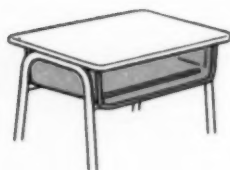
EXAMPLE: 1173-524: Student Chair, 17" height, brown frame, textured brown vinyl-clad seat and back, with book rack, right hand tablet desk attached.



Student Desks

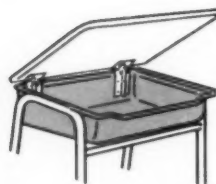
SAMSONITE Mobile Student Desks add another new touch of color to the classroom. Creatively designed to pair with Student Chairs, the unit may be used as a desk or table. Several may be pushed together for group projects.

Efficiently manufactured to withstand the hardest use with tops of plastic laminate, desks are available with open front book boxes, or with lift-lid and closed front book box. Open front book boxes only are optional in the space-saving two-student model.



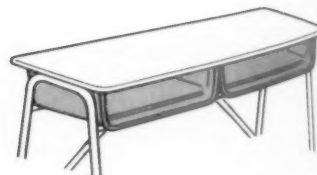
OPEN-FRONT BOOK BOX

Box formed of single deep drawn stamping. Edges flanged for strength and safety, continuous pencil groove at front, $\frac{3}{4}$ " clean-out holes at back.



OPEN-LID—single desk only

Noiseless, slam-proof, tamper-proof. Fingers cannot be caught between lid and box. Friction hinge, counter-sunk rubber bumpers.



TWO-STUDENT DESK

Available in 23", 26" and 29" heights. 24" x 48" plastic top. Open front book boxes optional.

STYLE, CODE NUMBER FORMULA

2000-0			
	HEIGHT	FRAME COLOR	BOOK BOX
2 indicates STUDENT DESK	20"		1 no book box
	21"		3 open
	22"		front box
	23"		4 lift-lid
	25"		
	26"	6 Grey	
	27"		
	29"		
	30"		

EXAMPLE: 2261-1: Student Desk, 26" height, turquoise frame, no book box, plastic top

STYLE, CODE NUMBER FORMULA

7000-0			
	HEIGHT	FRAME COLOR	BOOK BOX
7 indicates TWO- STUDENT DESK	23"		1 no book box
	26"		2 two open
	29"		front boxes
		6 Grey	

EXAMPLE: 7296-2: Two-student Desk, 29" height, grey frame, two open front book boxes

Samsonite

Study Desks

**LIFT-LID BOOK BOX**

Optional on all sizes.
18" x 24" top.

**BOOK RACK**

All Study Desks without book boxes
equipped with book racks.

SAMSONITE Study Desks combine the comfortable Student Chair with a carefully coordinated and well supported top to provide a complete mobile study unit. The Study Desk features the pivoted reinforced plastic back, 5-ply birch or maple seat and plastic laminate top. Textured grey or brown vinyl-clad steel seats and backs are optional in 16 and 17 inch chair heights. Desk top heights are properly scaled to seat heights. Study Desks are available with lift-lid book boxes, or with book rack under chair seat.

STYLE, CODE NUMBER FORMULA

6000-00						
		HEIGHT	FRAME COLOR	BACK	SEAT	BOOK BOX
6 indicates STUDY DESKS	Desks	Chairs		2 pivot	plywood	1 no book box (book rack under chair)
	23"	13"		grey plastic (vinyl-clad only on 27", 29" heights)		
	25"	14"	3 Brown		vinyl-clad brown	2 lift-lid
	27"	16"	5 Grey	5 pivot vinyl-clad brown		
	29"	17"	4 Terra Cotta	6 pivot vinyl-clad grey	vinyl-clad grey	

EXAMPLE: 6298-61: Study Unit, 29" desk height, (17" chair height) terra cotta frame, textured grey vinyl-clad steel seat and back, without book box, book rack under chair.



Harrington School
Lexington, Massachusetts



Activity Tables

Rectangular

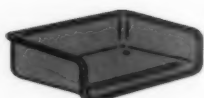
SAMSONITE School Tables are designed to fit every need of group study or activity.

The Rectangular Table is ideal for libraries, cafeterias or wherever group rather than individual activities prevail.

Design of the table is unified with all other SAMSONITE units.

Lightweight tubular steel legs and swivel glides provide easy movement. Tapered metal "spats" camouflage scuffs and mop marks.

Available in three sizes and eleven heights. Wood grained plastic top.



OPEN FRONT BOOK BOXES

Top Size	Boxes
30" x 60"	2, both on one long side
30" x 72"	2, both on one long side
36" x 72"	4, two on each long side

Round

The Round Table is one of the most widely used forms for group activity. The table seats from one to six, depending on the nature of the activity in which the students are engaged.

It is especially useful near entrances and in areas of heavy traffic, such as cafeterias.

Light in weight and fitted with swivel glides, the round table lends itself easily to flexible grouping arrangements.

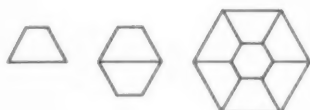
48" diameter top in wood grained plastic laminate surface. Eleven heights.



Samsonite

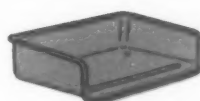
School No. 3, Oceanside
Long Island, New York

Trapezoid



CAN BE GROUPED IN MANY WAYS

The Trapezoid Table is the most versatile table ever offered for classroom use. As a single unit, it is a desk for two or three students, or an ideal small conference table. Two trapezoid tables with the long sides together form a Hexagon — all the advantages of a round table, but with six well-defined places for as many students. Trapezoid tables may be grouped in various combinations with endless possibilities — from a U-shaped newspaper "city desk" to zig-zag arrangements which fit any conceivable need. Wood grained plastic laminate top. Eleven heights.



OPEN FRONT BOOK BOXES

Top Size	Box
30"x30"x30"x60"	1, on long side

STYLE, CODE NUMBER FORMULA

3000-000

	HEIGHT	FRAME COLOR	TOP SIZE	TOP MATERIAL	BOOK BOXES—NUMBER
3 indicates ACTIVITY TABLES	20"		1 30" x 60"	3 plastic laminate	1 one box
	21"		2 30" x 72"		2 two boxes
	22"		3 36" x 72"		3 three boxes
	23"		4 30" x 30" x 30"		4 four boxes
	24"		x 60" trapezoid		
	25"		6 48" dia. round		
	26"	6 Grey			
	27"				
	28"				
	29"				
	30"				

EXAMPLE: 3243-334: Activity Table, 24" height, brown frame, 36" x 72", plastic faced laminated honeycomb core top, 4 book boxes.

D-45/H



SINGLE PEDESTAL

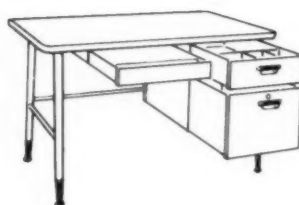
Two desk styles have been created to meet the special requirements of classrooms and school administrative offices. The spacious working surfaces and storage compartments provide facilities for an efficient working center.

The single pedestal desk, 30" x 48", is fitted with two drawers in the pedestal for orderly storage of working materials. A handy shallow drawer is located in the center of the desk. 29" height.

DOUBLE PEDESTAL

The larger 30" x 60" size desk is equipped with storage drawers on each side for personal supplies as well as ample file space for ready reference, and a shallow drawer at the center.

All legs are fitted with swivel slides to facilitate easy movement.



Teacher's Desks

DRAWERS

Sturdy, all-steel, easy to operate on nylon rollers. Finished in baked grey enamel.

SIDE PANELS

All-steel finished in baked grey enamel to match or contrast frame color.

TOPS

Plastic laminate wood grain surface.

COURTESY PANEL

Standard on both models.



STYLE, CODE NUMBER FORMULA

4000-0

	HEIGHT	FRAME COLOR	TOP SIZE
4 TEACHER'S DESK	29"		1 30" x 48" single pedestal
		6 Grey	2 30" x 60" double pedestal

EXAMPLE: 4291-2: Teacher's Desk, 29" height, turquoise frame, double pedestal 30" x 60" top.



Classroom
Inkster, Michigan

Samsonite

Specifications

Suggested short form specification

General:

Classroom furniture as scheduled to be "Samsonite" as manufactured by Shwayder Brothers, Incorporated, Classroom Furniture Division, Detroit, Michigan, (or equal). Model numbers refer to units as detailed in the 1958 Samsonite Classroom Furniture Catalog (1958 Architectural File—Sweet's).

Suggested long form specification

(Add following to general clause.)

I. METAL PARTS

A. Frames—Furniture frames shall be fabricated from resistance welded AISI C 1010 cold rolled steel tubing to appropriate size and gauge.

Metal sleeve 2 7/8" long shall encase end of each leg.

B. Seats and Backs (16", 17", 18" chairs only)—Steel seat and back shall be fabricated from 20 gauge AISI C 1010 cold rolled steel sheet, laminated with semi-rigid vinyl film. Both stampings to be contoured and have smooth curls around periphery.

II. WOOD PARTS

All woods shall be selected from air seasoned stock free from imperfections including knots, shakes, sap discolorations and other defects affecting appearance and service. Wood shall be kiln dried and have a moisture content at time of lamination not to exceed 7%.

A. Seats (All size chairs)—Wood seats shall be 5-ply 3/8" thick hard-wood plywood. Face ply shall be #1 Grade tapeless spliced and matched for grain and color. Back ply shall be #2 Grade tapeless spliced and matched for color. Face and back plys shall be hard maple or birch species. Core woods shall be selected hardwood. Plys shall be cross laminated and bonded with Type II Urea-Formaldehyde water resistant adhesive.

B. Desk and Tablet Tops—A wood pattern melamine plastic sheet 1/4" thick shall be laminated to 3/4" thick hardwood plywood with minimum 7 ply. Plys shall be cross laminated and bonded with Type II Urea-Formaldehyde water resistant adhesive. A melamine plastic backing sheet shall be laminated to the bottom surface to provide a balanced construction and minimize warpage. The melamine plastic surfaces shall meet the NEMA heat and solvent resistant specifications and shall have a light reflectance factor of 30 to 50.

C. Activity Table Tops

(1) Round—Table tops shall be melamine plastic on hardwood plywood. Specifications as stated in paragraph B shall prevail with the exception that the top shall be 1" thick hardwood plywood.

(2) Rectangular, Trapezoid—Activity table tops shall be a rigid laminated sandwich consisting of two skins, edge framing, and a honeycomb core with overall thickness of 1 3/8". Skins shall be 3 ply hardwood plywood. Top skin shall be faced with a wood pattern melamine plastic. Bottom skin shall be backed with a melamine plastic balancing sheet. Edge framing shall be hardwood plywood minimum 7 ply. Core shall be phenolic impregnated kraft honeycomb.

III. PLASTIC PARTS

A. Plastic Back—Back panel of the chair shall be a molded fibre glass reinforced polyester resin plastic. Molding shall be performed in polished matched metal molds which shall provide optimum density and high temperature cure of the polyester resins. Molded parts shall have a thickness of 0.100" plus or minus .010". A minimum of 20% glass fibre mat shall be used. The molded part shall be designed to provide additional reinforcement and strength in the areas immediately adjacent to the rivet holes. The surface shall have a hardness which shall withstand scratching with a #6H pencil.

IV. FINISHING

A. Wood Finishing—All top surfaces shall be sanded smooth. Exposed surfaces shall be free from glue, stains, scratches or other defects. Exposed wood parts shall be finished with a light stain, a penetrating primer sealer, and two finish coats of Type H low gloss lacquer. A drying cycle shall follow the application of each of the four finishing coats. A scuff sanding operation will be performed on intermediate applications if required for the removal of dirt or blisters. Bottom surface shall be smooth and shall be finished with a sealer and one coat of Type H lacquer. The final finish shall have a light reflectance factor of 30 to 50.

B. Metal Finishing—All metal parts shall be cleaned and free of dirt, oil, grease, rust and scale. The cleaned surfaces shall be subjected to a chemical treatment which produces an adherent crystalline iron phosphate which shall be water insoluble and shall be deposited in a minimum of 50 milligrams per square foot of surface area. A continuous film of organic baking enamel shall be applied to all surfaces. The enamel shall be baked under controlled conditions which will provide the temperature-time relationship for optimum polymerization of the organic resins. All product colors shall be a commercial match to the standard retained color panel.

V. TESTING OF FINISHES

A. Wood—Finishes of wood parts shall meet the testing requirements of Federal Spec. TT-P-141B Method 617.1.

B. Metal—Finishes of metal parts shall meet the testing requirements of Federal Spec. TT-P-141B Methods 606.1, 617.1, 619.2, 622.1.

VI. HARDWARE

A. Glides—Glides shall be designed to provide a ball and socket type swivel action and an integral cupped leg end mounting for increased lateral strength. Mushroom bearing surface shall be a minimum of 1 1/8" in diameter, fabricated from case hardened steel with a hard nickel chrome polished finish. Spring steel attaching web shall be completely insulated from the metal portion in contact with the floor by a resilient cushion. The glides shall be designed to withstand a direct pull of 400 lb. and remain securely in place in the end of the leg.

B. Screws—Screws used for the attachment of wood parts shall be Phillips Head.

Samsonite

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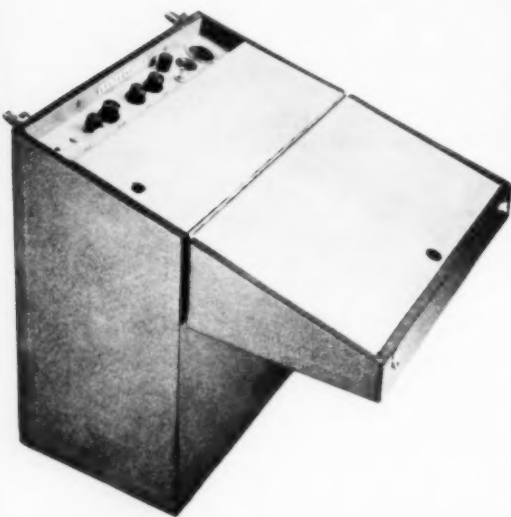
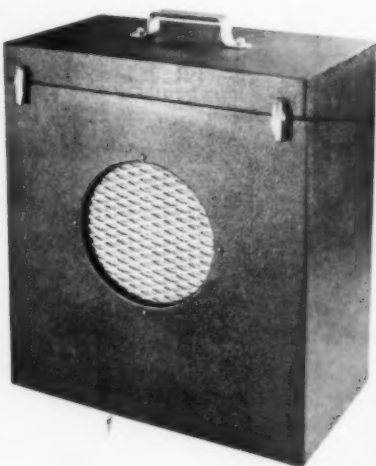
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← Lecternette with microphone being used on a lavalier cord and clip for discussions with use of charts, etc.

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This new self-contained electronic lectern, with voice and music amplification of high fidelity quality, can be set up and put into operation in less than 30 seconds. Operates from batteries when 110 volt house current is not readily available.

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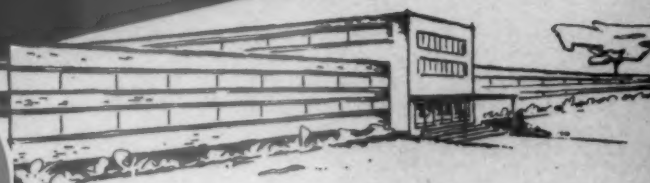
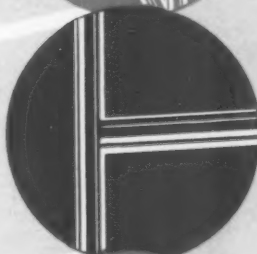
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HEAVY GAUGE STEEL

Extra sturdy, with all surfaces rust-treated, thoroughly cleansed and phosphate-coated for better finish adhesion.



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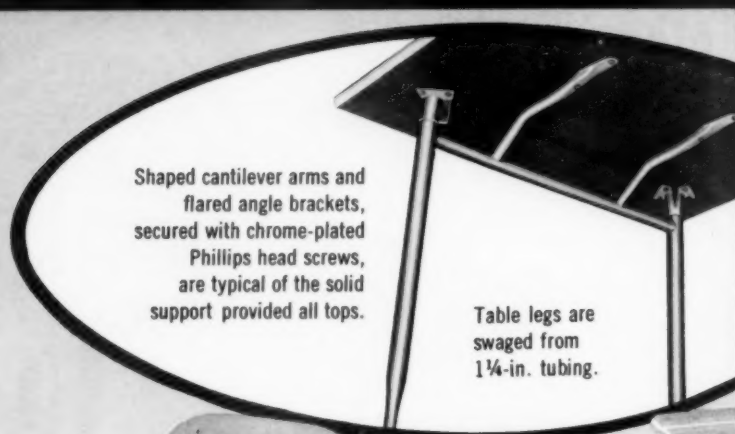


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**WESTMORELAND METAL
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Extra quality throughout, for longer life and lower maintenance costs



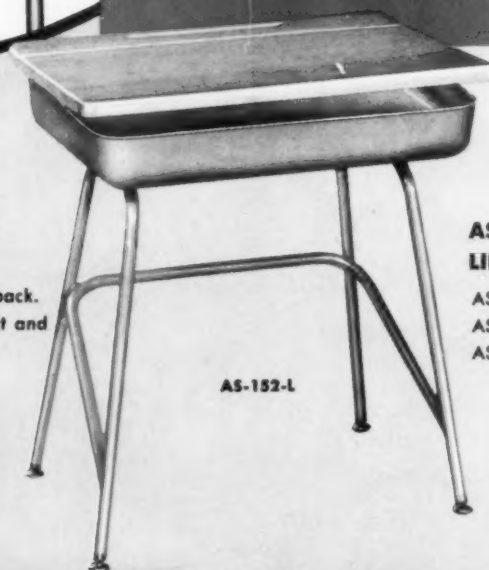
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- AS-101—Plywood seat and back.
AS-102—Solid hardwood seat and back.

Available with 4-bar rack.



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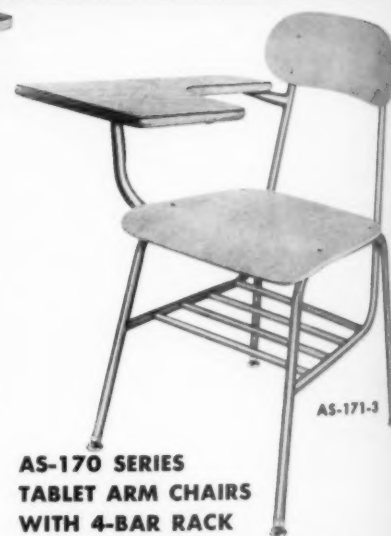
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18 x 24 in.



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Available in 16, 17 or 18-in. seat height.

Frames available in famous Westmoreland

CHROME

finish—or in baked ENAMELED TAUPE—also turquoise, blue, coral, hammertone gray

STANDARD BUDGET SERIES by Westmoreland

Raised stretchers, which prevent foot scuffing, optional slightly extra

- Chair and desk legs and "U" braces for desks are 1-in. O.D. 18-gauge steel. Stretcher bars are $\frac{3}{8}$ -in. tubular steel, carefully fitted to avoid interference.
- Back boxes are 20-gauge steel, embossed for greater strength.
- Enamels are oven-baked at over 300° temperature.
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- 151—Plywood top.
- 152—Solid hardwood top.
- 153—Laminated plastic top.
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152

100 SERIES CHAIRS

- 101—Plywood seat and back.
- 102—Solid hardwood seat and back.

Available with 3-bar rack.



101



102

150-L SERIES LIFT-LID DESKS

- 152-L—Solid hardwood top.
- 153-L—Laminated plastic top.
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152-L



162-BR

160-BR SERIES STUDY TOP DESKS WITH BOOK RACK

- 161-BR—Plywood top.
- 162-BR—Solid hardwood top.
- 163-BR—Laminated plastic top.



192

190 SERIES DOUBLE DESKS

- 191—Plywood top.
- 192—Solid hardwood top.
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Desk top 18 x 48 in.
Budget-priced, low maintenance units.
Saves space for every other inside aisle.



171

170 SERIES TABLET ARM CHAIRS

- 171-1—Plywood seat, back and arm.
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TUBULAR STEEL SCHOOL FURNITURE

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AS-202—Solid hardwood top, seat and back.

AS-202-3—Laminated plastic top, hardwood seat and back.

Unit available right or left. Outside left-hand book rack available.



AS-202-3

Multiple Curve Posture Design Fits Body Contours At Vital Points

Westmoreland also manufactures tables for classrooms, libraries and conference rooms—including rectangular, hexagonal, trapezoidal and round top types. Write for information.



AS-3048-SP

TEACHERS' SINGLE PEDESTAL DESKS

30 x 48 in. top. Laminated plastic top and drawer fronts.

AS-10-TC-2



AS-3060-DP

TEACHERS' DOUBLE PEDESTAL DESKS

30 x 60 in. top. Five drawers. Laminated plastic top and drawer fronts.

AS- RECTANGULAR TABLES

AS-2448—Laminated plastic top (24 x 48 ins.)

AS-3060—Laminated plastic top (30 x 60 ins.)

AS-3072—Laminated plastic top (30 x 72 ins.)

AS-3672—Laminated plastic top (36 x 72 ins.)

Double edge
tops at addi-
tional cost.



ART DESK 453

24 in. adjustable laminated plastic top.
Over-all 24 x 36 in.



453

403

ART BENCH 403

Laminated plastic seats
12 x 18 in. and 18 x 24 in.

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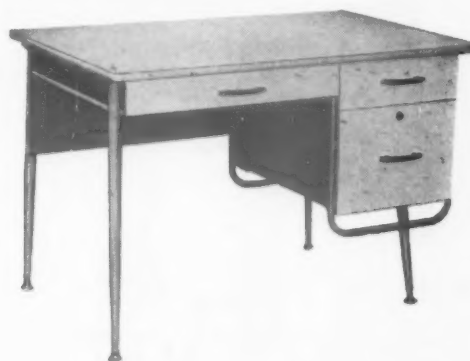
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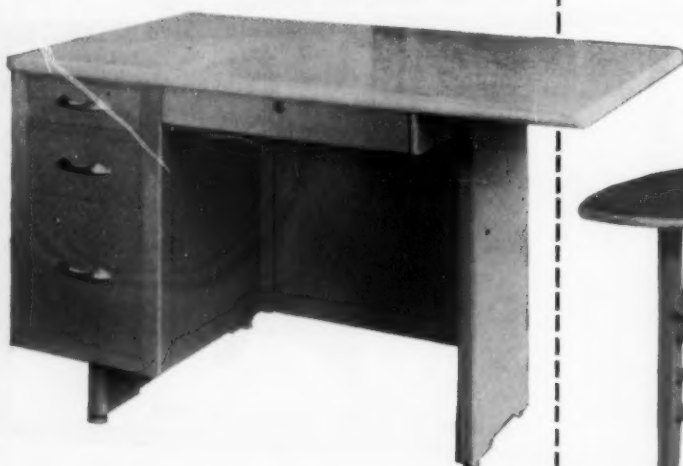
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Sizes 10" through 18"

No. 1479
Chair—18"

No. 1301 Chair—17" or 18"



No. 800-F Conference Desk—This handsome pedestal-base desk has recessed knee spaces front and back; ideal for interviews or teacher conferences.

No. 99SF Movable Chair Desk—17"
Also available: 13" and 15"No. 5499 Tablet Arm
Chair—17" or 18"No. 65B Desk . . . No. 1916 Chair. Desk
made in heights 20" to 30" with Chairs 10"
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MODERN SCHOOL FURNITURE Designed for UTILITY — — SERVICE



No. 4230-S SINGLE PEDESTAL DESK

Top: 42 x 30". 1 1/4" thick with edges banded.
Height: 30"

Drawers: Fronts, veneered 13/16" thick. Dove tailed front and rear. Hardwood veneer interior, with full framed-in bottoms, finished inside. Key lock in knee drawer, controlling all metal locking devices.

Legs: 1 3/4" square, selected hardwood, tapered and fitted with ferrules.

Made of Oak or Maple.

Full mortise and tenon construction, with molding around bottom of panels. Frame reinforced at lower rear corners with steel corner tenons.

Also available: Double-pedestal desk with top sizes of 54 x 30 and 60 x 34; secretarial desk 60 x 34.

NO. 400 TABLET ARM CHAIR

Seat: 18 1/2" wide x 17" deep

Tablet Arm: 23 1/2" long x 12 1/2" wide

In Beech or Oak with Beech Tablet

Finish: Natural, School Brown or Warmtone

Exceptionally comfortable and serviceable



NO. 617 MOVABLE CHAIR DESK



These Movable Chair Desks are made in three heights and sizes: No. 613—13" seat height; No. 615—15" seat height; No. 617—17" seat height.

NO. 1400 CHAIR



No. 1400 chairs have full saddled seats, double dowelled throughout. Of thoroughly kiln dried Beech, in Natural, School Brown, or Warmtone
Sizes: 10" through 18"

NO. 1400 DESK AND CHAIR UNIT

All No. 1400 Chairs, Movable Chair Desks, and Tablet Arm Chairs have special lock-joint corner block construction

No. 1400 units are made in four standard sizes:

A Size: Desk 29" and Chair 17"

B Size: Desk 26" and Chair 15"

C Size: Desk 23" and Chair 13"

D Size: Desk 22" and Chair 12"

All 1400 desks have 18" x 24" tops with a 4 1/2" book compartment. Pencil grooves are standard equipment. Both desks and chairs are designed for maximum comfort, appearance and service.

Made from Beech lumber, thoroughly kiln dried and finished either in Natural, School Brown or Warmtone.

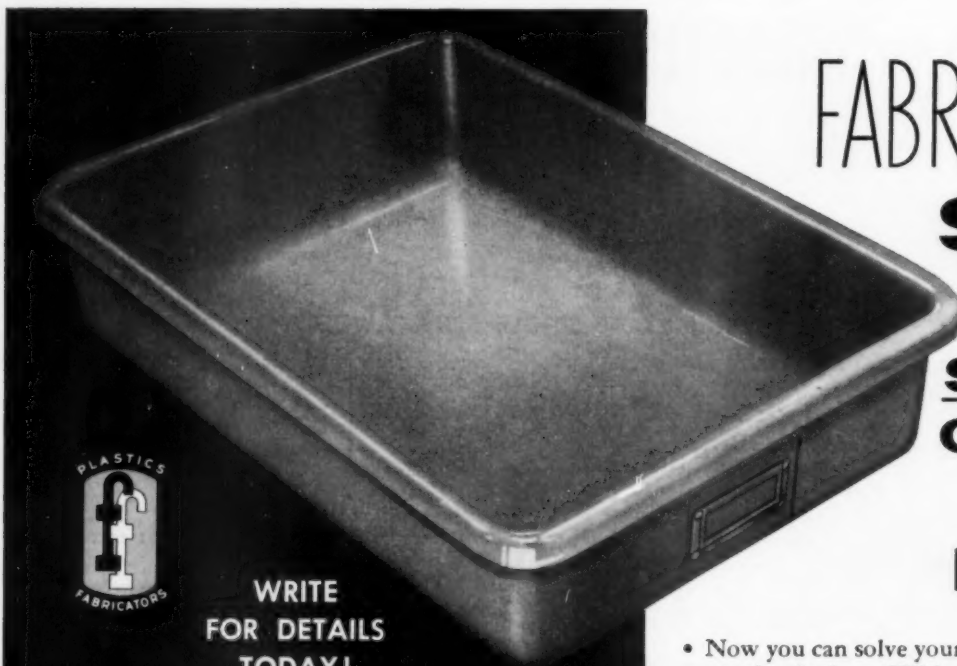


WRITE FOR NAME OF AUTHORIZED DISTRIBUTOR IN YOUR STATE

AMERICAN SCHOOL AND UNIVERSITY—1958-59

THE FABRI-FORM COMPANY

Byesville 2, Ohio



WRITE
FOR DETAILS
TODAY!

Available from STOCK in these standard sizes

#T-100	#T-103
8-7/8"x18-7/8"x4-5/16"	11-1/2"x18"x4-1/4"
#T-101	#T-104
16-1/2"x13"x3-3/8"	21"x14-3/4"x4-1/8"
#T-102	#T-105
13-5/8"x18-7/8"x4-5/16"	13-5/8"x18-7/8"x3-1/2"



AMERICAN SCHOOL AND UNIVERSITY—1958-59

FABRI-FORM School Trays solve your classroom storage problems

• Now you can solve your classroom storage problems without expensive lockers. With Fabri-Form's new school trays, you have the ideal system for storing student's materials INDIVIDUALLY! Many schools use Fabri-Form school trays for storage in home economics, kindergarten, science and chemical labs, teacher's wardrobe cabinets, and manual training classrooms—to mention but a few of their countless uses. Typical of articles now being stored in these school trays are toys, art materials, blankets, "rest period" rugs, kitchen equipment, sewing equipment, books and writing materials, etc.

Fabri-Form school trays can be used without any additional equipment very satisfactorily—yet they are designed to fit any standard rack system the school may decide to add later. Your investment is economical and always protected, since these school trays HAVE IMMEDIATE USE TO SOLVE EXISTING PROBLEMS and are always available for later incorporation into a more elaborate storage system.

CHECK THESE FEATURES!

- Beautiful pale tan, gray or green colors
- Made of sturdy high-impact plastic, with high gloss finish—**UNBREAKABLE** in normal use
- Resists soiling—easily cleaned with any mild soap
- Light weight and easy to handle—even by small children
- Sizes to fit most existing rack systems
- Used as original equipment by many leading school equipment manufacturers—**NOW YOU CAN GET THEM INDIVIDUALLY**
- Handy card holder on front, each child has his own easily identified school tray
- Over 864 cubic inches of storage space in school tray illustrated
- Low cost—long life—trouble-free storage

Educators

classroom cabinets



● **CONSISTENT QUALITY**

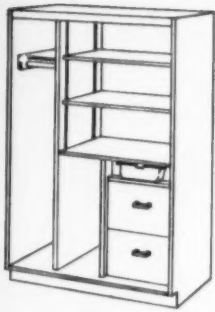
● **PROVEN DESIGN**

● **MASS PRODUCTION ECONOMY**

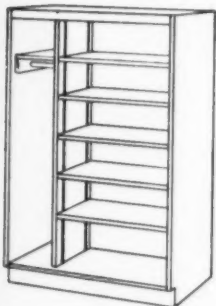
Educators selection of more than 100 units fulfills every general classroom requirement. An exclusive combination of the warmth and beauty of natural wood with clean, functional design and tasteful color accents brings to the classroom a quiet atmosphere conducive to study and accomplishment.

100 SERIES

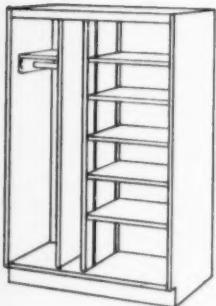
teacher's storage cabinets



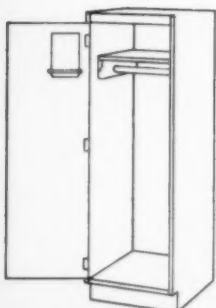
No. 101
23½" x 47½" x 71½"
Doors Not Shown



No. 102
23½" x 47½" x 71½"
Doors Not Shown



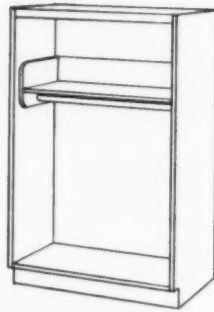
No. 103
23½" x 47½" x 71½"
Doors Not Shown



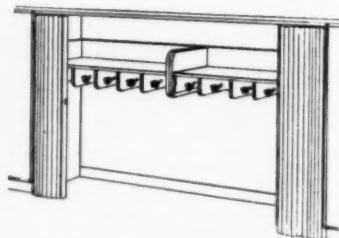
No. 104
23½" x 24½" x 71½"

200 SERIES

student wardrobes



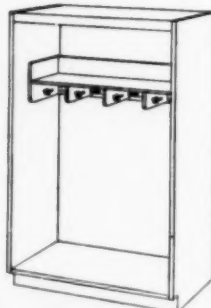
No. 203 Without Doors
No. 204 With Doors
23½" x 47½" x 71½"
18 Hangers Included



No. 205 With Shelf & 36 Hangers
No. 209 With Shelf & 36 Hooks
23½" x 120" x 71½"



No. 206
12" x 47½" x 14¾"
12" x 60" x 14¾"
18 Hangers Included



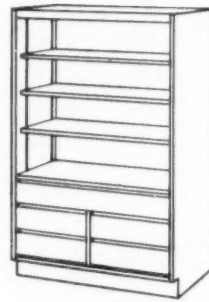
No. 207 Without Doors
No. 208 With Doors
23½" x 47½" x 71½"
18 Hooks Included



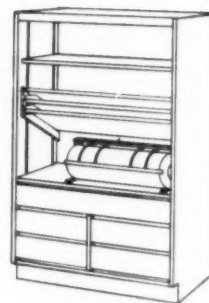
No. 210
12" x 47½" x 14¾"
12" x 60" x 14¾"
With 18 Hooks

300 SERIES

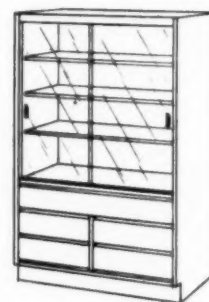
classroom supply cabinets



No. 301
23½" x 47½" x 71½"
Doors Not Shown



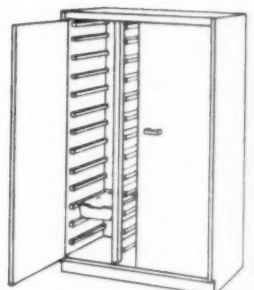
No. 302
23½" x 47½" x 71½"
Doors Not Shown



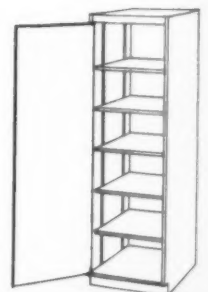
No. 303
23½" x 47½" x 71½"
Sliding Glass Doors



No. 304
23½" x 47½" x 71½"



No. 305 With Doors
No. 306 Without Doors
23½" x 47½" x 71½"
39 Tote Trays Included

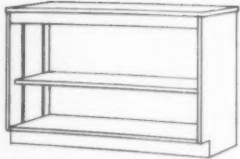


No. 307
23½" x 24½" x 71½"

movable counter
cabinets



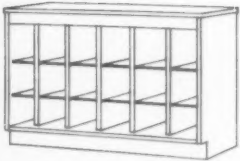
No. 441 Without Doors
No. 442 With Hinged Doors
No. 443 With Sliding Doors
Top: 18" x 48"
Height: 26" x 30" only
Optional



No. 441 Without Doors
No. 442 With Hinged Doors
No. 443 With Sliding Doors
Top: 18" x 48"
Height: 26" x 30" only
Finished back and Glides



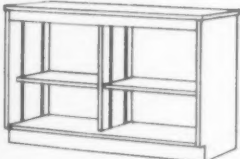
No. 444 Without Doors
No. 445 With Hinged Doors
No. 446 With Sliding Doors
Top: 18" x 48"
Height: 26" x 30" only
Optional



No. 445 Without Doors
No. 446 With Hinged Doors
No. 447 With Sliding Doors
Top: 18" x 48"
Height: 26" x 30" only
Finished back and Glides



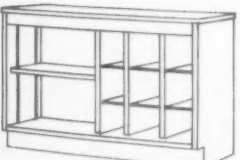
No. 448 Without Doors
No. 449 With Hinged Doors
No. 450 With Sliding Doors
Top: 18" x 48"
Height: 26" x 30" only
Optional



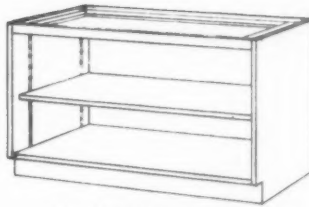
No. 448 Without Doors
No. 449 With Hinged Doors
No. 450 With Sliding Doors
Top: 18" x 48"
Height: 26" x 30" only
Finished back and Glides



No. 451 Without Doors
No. 452 With Hinged Doors
No. 453 With Sliding Doors
Top: 18" x 48"
Height: 26" x 30" only
Optional



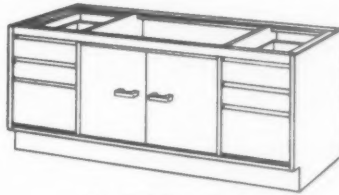
No. 451 Without Doors
No. 452 With Hinged Doors
No. 453 With Sliding Doors
Top: 18" x 48"
Height: 26" x 30" only
Finished back and Glides



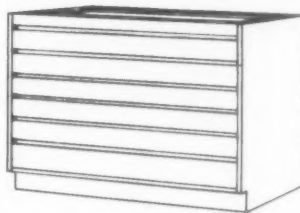
No. 501 Without Doors
No. 502 With Hinged Doors
No. 503 With Sliding Doors
Top: 23 1/2" x 47 1/2"
Heights: 25-3/16"—29-3/16"—33-3/16"—35-3/16"
Base Only



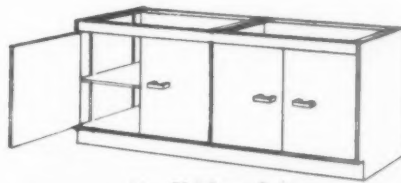
No. 504
Top: 23 1/2" x 47 1/2"
Heights: 25-3/16"—29-3/16"—33-3/16"—35-3/16"
Base Only



No. 507 Base Only
No. 516 With Top & Sink Cutout (no sink fixtures)
No. 519 Complete with Top & Sink (no fixtures)
No. 530 No Metal liner; Birch shelf and bottom
Top: 24" x 72"
Heights: 26"—30"—34"—36"

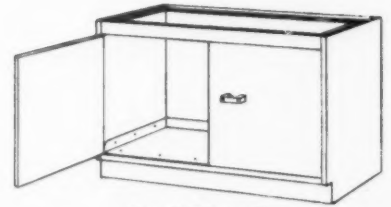


No. 509
Top: 27 1/2" x 47 1/2"
Heights: 25-3/16"—29-3/16"—33-3/16"—35-3/16"

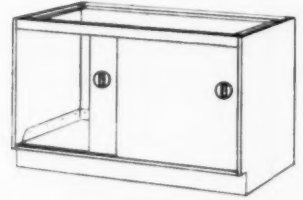


No. 514 Base Only
No. 517 With Top & Right or Left Sink Cutout (no sink or fixtures)
No. 520 With Top & Right or Left Sink (no fixtures)
No. 531 No Metal liner; Birch shelf and bottom
Top: 24" x 72"
Heights: 26"—30"—34"—36"

fixed counter
cabinets



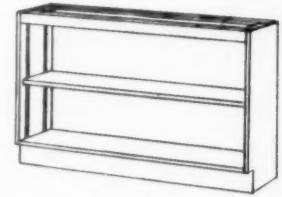
No. 515 Base Only
No. 518 With Top & Sink Cutout (no sink or fixtures)
No. 521 Complete with Top & Sink (no fixtures)
Top: 24" x 48"
Heights: 26"—30"—34"—36"



No. 522 Base Only
No. 523 With Top & Sink Cutout (no sink or fixtures)
No. 524 Complete with Top & Sink (no fixtures)
Top: 24" x 48"
Heights: 26"—30"—34"—36"



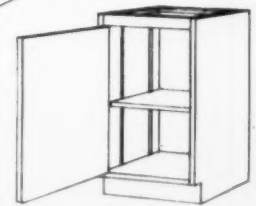
No. 525
Top: 23 1/2" x 18 3/4"
Heights: 25-3/16"—29-3/16"—33-3/16"—35-3/16"



No. 526
11 1/4 x 47 1/2" x 29-3/16" Height only

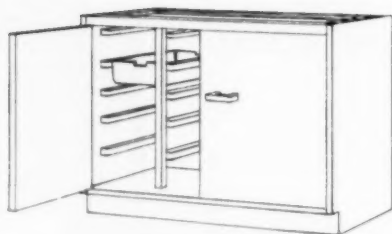


No. 527
Top: 23 1/2" x 18 3/4"
Height: 33-3/16"—35-3/16" only

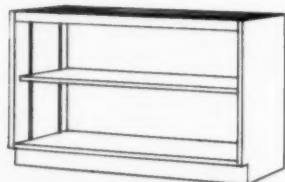


No. 528
Top: 23 1/2" x 18 3/4"
Heights: 25-3/16"—29-3/16"—33-3/16"—35-3/16"

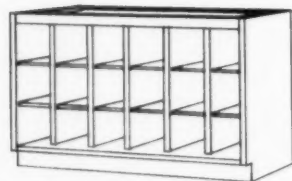
special purpose units



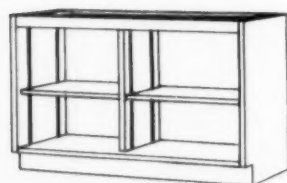
No. 532
23 1/2" x 47 1/2"
Height: 33-3/16" — 35-3/16" only



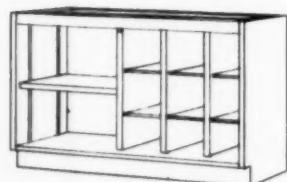
No. 541 Without Doors
No. 542 With Hinged Doors
No. 543 With Sliding Doors
17 1/2" x 47 1/2"
Heights: 25-3/16" — 29-3/16" only



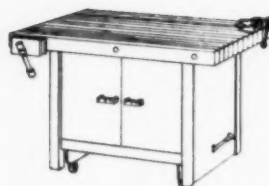
No. 545 Without Doors
No. 546 With Hinged Doors
No. 547 With Sliding Doors
17 1/2" x 47 1/2"
Heights: 25-3/16" — 29-3/16"



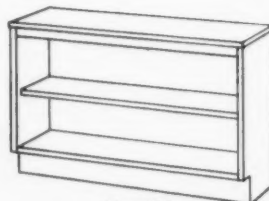
No. 548 Without Doors
No. 549 With Hinged Doors
No. 550 With Sliding Doors
17 1/2" x 47 1/2"
Heights: 25-3/16" — 29-3/16" only



No. 551 Without Doors
No. 552 With Hinged Doors
No. 553 With Sliding Doors
17 1/2" x 47 1/2"
Heights: 25-3/16" — 29-3/16" only



No. 602
Top: 2 1/4" x 30" x 48"
Heights: 26" — 32"
Retractable Casters



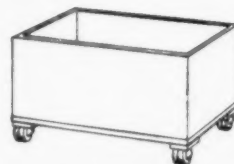
No. 603
Top: 11 3/4" x 48"
Height: 30" only



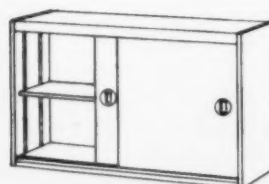
No. 604
Top: 19-5/8" x 19-5/8"
Heights: 23 1/4" — 24 1/2"



No. 605
Top: 19 3/8" x 19 3/8"
Heights: 22 1/2" — 23 3/4"



No. 606
Top: 19 3/8" x 38 3/4"
Heights: 22 1/2" — 23 3/4"



No. 611 13" x 47 1/2" x 30"
No. 612 13" x 72 1/2" x 30"



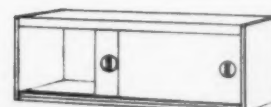
No. 613 Initial
No. 614 Additional
11" x 36" Centers x 82"
No. 615 Initial
No. 616 Additional
11" x 36" Centers x 60 1/2"
No. 617 Initial
No. 618 Additional
11" x 36" Centers x 39"



No. 619
24" x 48" x 50 1/2"
No. 620
24" x 48" x 50 1/2"
With Cork-chalkboard on Reverse Side



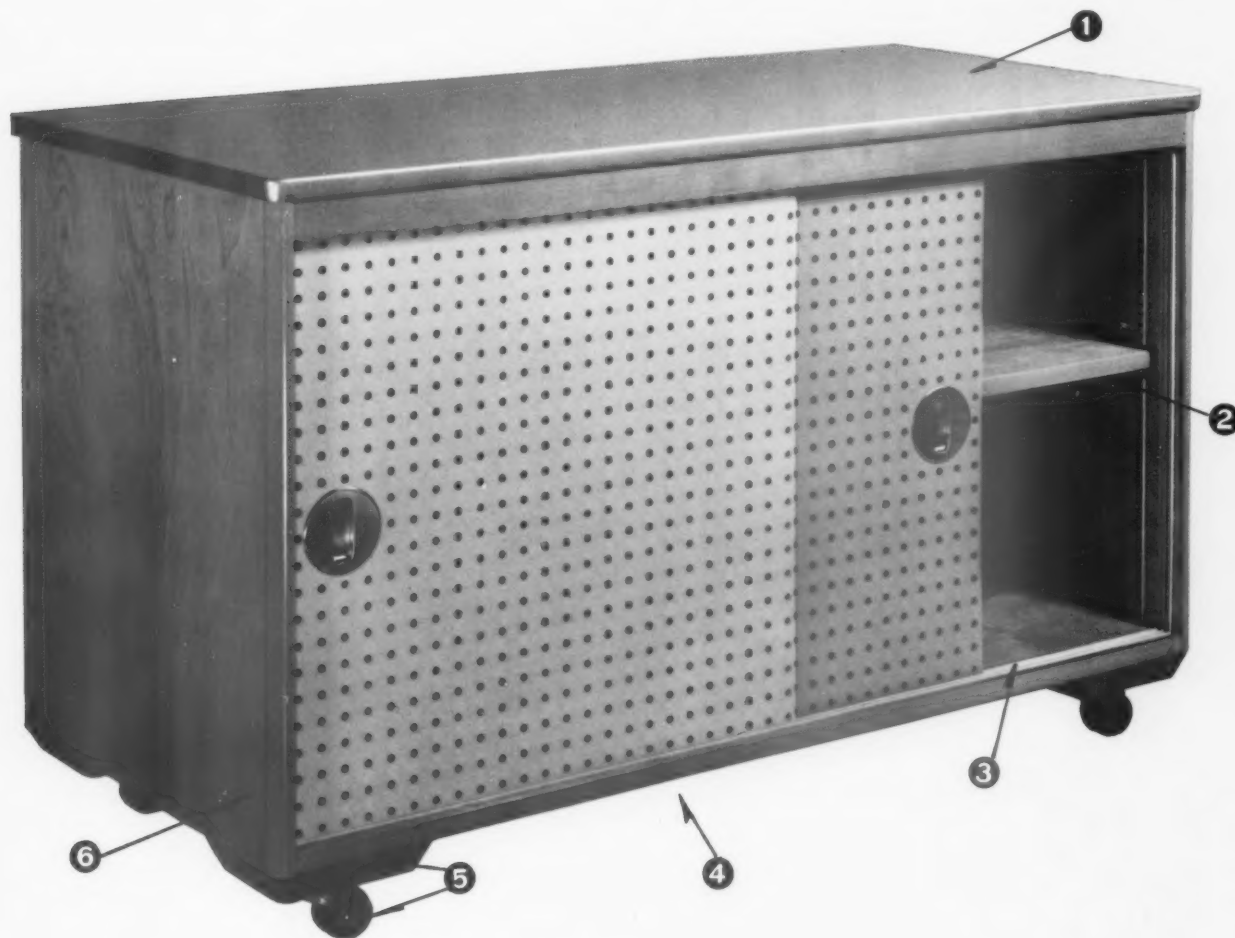
No. 621
23 1/2" x 47 1/2" x 11 1/2"



No. 622
13" x 47 1/2" x 15"
No. 623
13" x 71 1/2" x 15"

Educators cabinets are built better ... to last longer!

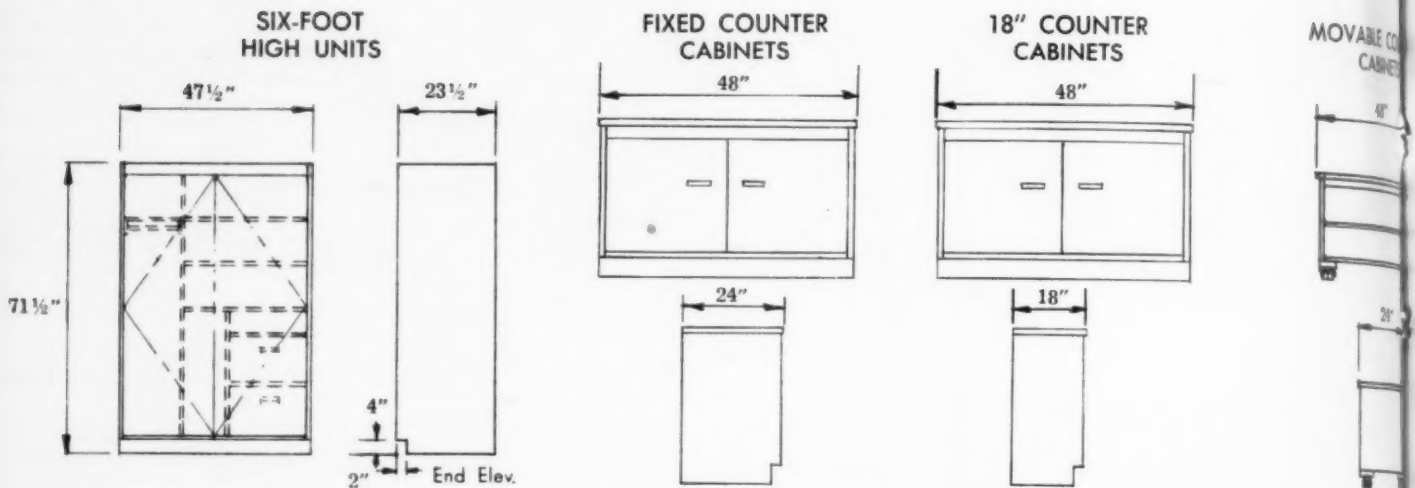
Educators cabinets offer more quality construction features to assure lasting beauty and smooth operation under the abusive treatment of everyday classroom use.



- ① Complete color selection of Formica tops in Linen and Skylark patterns
- ② Protective plastic "T" mold trim on interior edges
- ③ Quiet, smooth-running plastic sliding door track
- ④ Reinforcing angle rail on "400" series cabinets
- ⑤ New caster blocks with double wheel casters
- ⑥ Dent-proof Vinyl corners on caster units
- Super-strong wrap around hinges
- Adjustable feet on six-foot units
- Dovetail construction drawers
- Unbroken work surfaces to 10 feet on "500" series cabinets
- Warmth, beauty and durability of natural birch

It pays to specify...

Educators **Factory-Built Cabinets**



- Freedom of arrangement, plus adaptability to meet architectural and structural requirements.
- Factory finished end closure panels, filler fronts and trim molding are available for any situation.
- Extra wide tops may be specified to cover cabinets and conceal plumbing or heating piping.
- Optional grilled aprons allow air circulation for heating and ventilation.
- Educators cabinets are complete individual units and may be moved within the classroom or from room to room.

Specify Educators for your next school . . . new or remodeled!

Educators

MANUFACTURING COMPANY, P. O. BOX 1261, TACOMA, WASHINGTON

Fleetwood

MOBILE CLASSROOM CABINETS

SCULPTURED IN STEEL

The total periphery of every Fleetwood cabinet is framed in steel . . . handsome, rugged, indestructable.

TOPPED WITH PLASTIC

The *all-important* surface glistens bright and clean with America's finest . . . G. E. Textolite and Formica.

CRAFTED IN WOOD

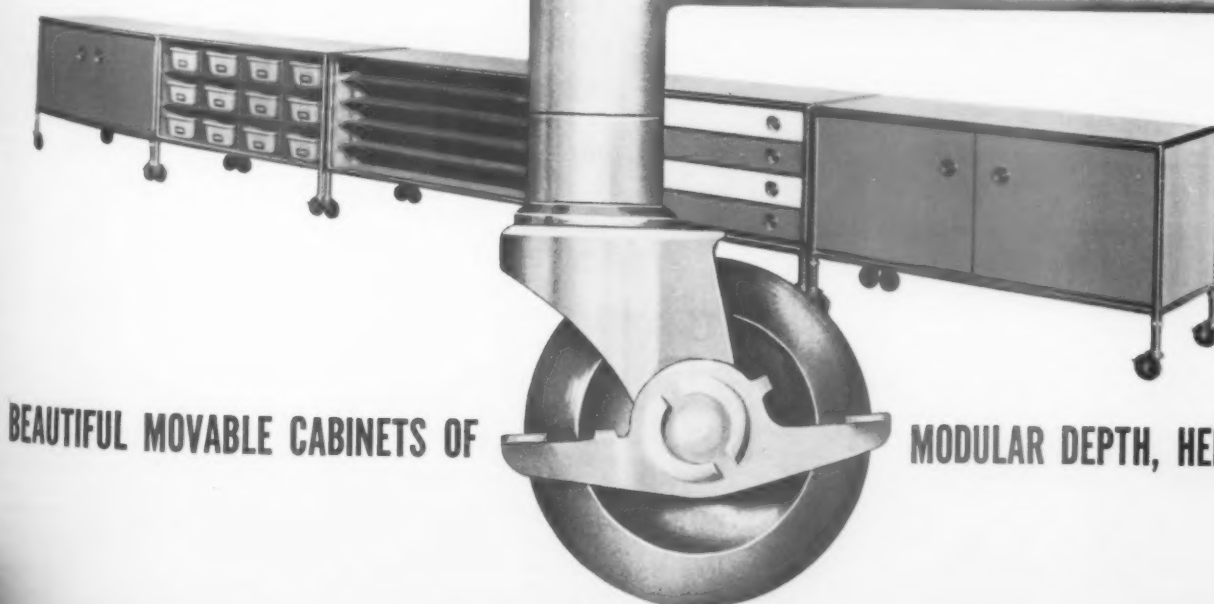
Every Fleetwood cabinet panel, *inside and out*, is $\frac{3}{4}$ " thick and faced with genuine Maple veneers.

STYLED IN BEAUTY

Classic lines of satin chrome gracefully frame warm natural Maple and radiant accent colors.

ALIVE WITH MOTION

Free-wheeling casters let "storage" cabinets double as teacher demonstrators . . . triple as work-top areas.



BEAUTIFUL MOVABLE CABINETS OF

MODULAR DEPTH, HEIGHT, WIDTH

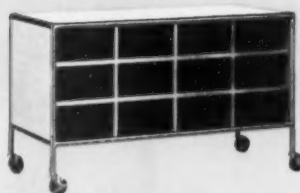
16 CATEGORIES, OVER 60 CABINETS, HUNDREDS OF COMBINATIONS

ELEMENTARY SCIENCE CABINETS



Completely mobile for optimum use within the classroom and from room to room, these workable, durable units come in a variety of sizes ranging from 22" x 22" to 28" x 48", and in six heights of 25" through 35". Locked storage area and large, easy rolling locking casters are standard. Also available at outstanding values, are Fleetwood's newly selected science kits.

GENERAL STORAGE CABINETS



Cubicles, compartments, shelving, drawers and trays on adjustable casters, legs or bases are available in six heights 25" through 35". Here is a broad line of cabinets with capacity and accommodation to meet essential storage needs found in everyday teaching situations. Extra plus value is gained by using cabinets as demonstrators, project work-top units and display areas.

SINK CABINETS



These popular sink units are offered with porcelain enamel or stainless steel sinks, or, cut-out only for owners own installation. Hot and cold water faucet with sink strainer and tailpiece are standard with choice of backsplash, fountain bubbler, legs or bases. Cabinet sizes are 22" x 48" in 6 heights of 25" through 35".

DRAWER CABINETS



Offered in two basic styles — four and five drawers; in two standard depths — 22" and 28"; these cabinets are as durable as they are functional. Steel drawer bodies and ball-bearing runner assemblies guarantee non-binding, lifetime operation. Choice of colors or natural warm finish on genuine Maple veneers on drawer fronts, end panels and backs make these units literally breathtaking in beauty.

DOUBLE HEIGHT CABINETS



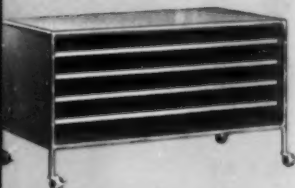
Twice the height of the General Storage cabinets and with an almost unlimited selection and combination of interior arrangements, these cabinets are outstanding in the amount and kind of storage they provide in a minimum of floor space. Available in nine heights with choice of adjustable casters, legs or bases, all units have Formica or G.E. Textolite tops.

STORAGE DEMONSTRATORS



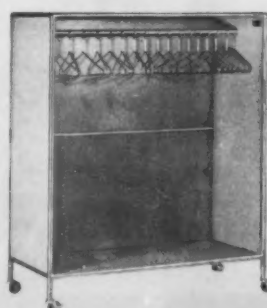
For the first time, a classroom storage cabinet takes on real TEACHING significance. With any of these units, the thoughtful teacher can produce eye-gate presentations that will capture and hold elusive student attention session after session, even in such academic courses as mathematics and geography. Three work-top sizes of 22" x 22", 22" x 30" and 22" x 48" are available in 33" and 35" heights.

PAPER STORAGE CABINETS



Generally considered essential in all elementary grades, these cabinets come in three styles: (1) four adjustable shelves; (2) butcher paper dispenser and one adjustable shelf; (3) four or five drawers. All three styles come in 22" and 28" depths; six heights 25" through 35"; and choice of adjustable casters, legs or bases.

STUDENT WARDROBES



Four basic types of cabinets in a number of heights, interior arrangements, caster, leg, base and wall-mounted applications make this the most complete wardrobe line in the industry. Some units available with or without doors, chalk or tack board. All units available with choice of hanger rod, steel hangers or heavy duty hooks.

ONLY FLEETWOOD OFFERS THE MOST COMPREHENSIVE RANGE AND TYPES OF STORAGE CABINETS YET PROVEN THROUGH ACTUAL CLASSROOM EXPERIENCE

TIER CABINETS



A group of unique and useful storage units in one, two, three and four tier arrangements on legs, casters or bases offered with or without sliding doors. Choice of all panels, including doors, in any combination of Fleetwood standard colors and Maple finish. All units have Formica or G.E. Textolite tops.

CRAFTWORK BENCH



A popular and practical unit for teaching various crafts in the elementary grades. Heavy, oiled Maple top has a woodworking and metalworking vise at either end with adjustable shelf storage below for tools and material. Heavy duty casters with locking brakes provide stability as well as mobility for practical classroom use.

WALL CABINETS



Three different sizes: 14" x 14" x 48", 14" x 20" x 48", and 14" x 30" x 48" provide valuable additional storage especially in crowded classrooms where floor space is at a premium. Wall Cabinets are often combined with Sink Cabinets and Teacher Storage Cabinets to make a highly functional and attractive installation.

ACTIVITY TABLE



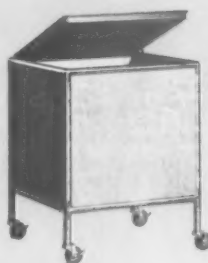
A big 48" diameter plastic top table with six attached stools that cleverly swing out of the way when not in use, yet instantly at hand when needed. A wonderful focal point for activities in the lower grades . . . ideal for the reading section in higher grades. Comes in table heights of 24", 26" and 28" with stool heights of 14" and 16".

TOTE TRAY CABINETS



Plastic tote trays for individual project materials is fast becoming standard procedure in all elementary grades as well as for specific classes in higher grades. Utilizing a tray size of 9" x 19" x 4 5/16", there are six sizes of cabinets with storage for six to sixty trays per cabinet. Other tray sizes are available. Doors are optional, as well as choice of heights, panel colors, casters, legs or bases.

TOY STORAGE CABINETS



Neat, easy rolling storage for all size and shapes of toys and sporting equipment with hinged, spring-loaded plastic surfaced top (ideal for audio-visual use) result in these cabinets being among the most popular in the Fleetwood line. Available in widths of 22" and 48", and six heights 25" through 35" with choice of any combination of three standard colors and Maple finish on panels.

BOOK STORAGE



There is no finer combination of good book handling and storage for America's classrooms than Fleetwood's famous double-faced Book Truck and ingenious new Bookcase. Bookcases come in 36" and 48" widths and two basic heights of 24" and 30". Simple locking devices provide ten height combinations from 24" to 96". Standard base has slanted shelf permitting easy title recognition and accessibility. Back panel optional.



TEACHER STORAGE CABINETS

A happy answer to one of education's toughest storage problems. Five basic types of interior combinations present a choice of wardrobe, file drawer, storage drawers, adjustable shelving and partitions for storage of personal effects, papers, equipment, maps and supplies . . . all under lock and key for practical, delightful everyday use and control.

EXCLUSIVE FEATURES THAT MAKE FLEETWOOD THE OUTSTANDING CABINET LINE IN AMERICA . . .

- 1 Distinctive styling protected by mechanical patents.
- 2 Total periphery of every cabinet is round, smooth and safe, yet completely impervious to the most rigorous use.
- 3 Any Formica or G. E. Textolite pattern on cabinet tops, other than Fleetwood standard, available at slight additional cost.
- 4 Choice of satin-smooth genuine Maple veneers and/or Flame Red, Citron Yellow and Cerulean Blue textured colors on doors AND cabinet panels.
- 5 Choice of $\frac{3}{4}$ " thick doors, mounted on the strongest hinge ever designed, or $\frac{1}{4}$ " sliding doors — in genuine Maple or colors.
- 6 EVERY cabinet panel (including back and interiors) is $\frac{3}{4}$ " thick and faced with Maple veneers.
- 7 All shelves and partitions are edged with plated steel channel.
- 8 Adjustable legs and adjustable casters are readily interchangeable.
- 9 Door stops are an integral part of the metal corners and tube hinges, not visible yet completely effective and trouble free.
- 10 Door catches are an integral part of the satin chrome steel tubing frame.
- 11 Choice of K.D. or set-up shipment.
- 12 WARRANTED against defects in workmanship or materials.



Designed by Henry P. Glass, FIDI

Fleetwood

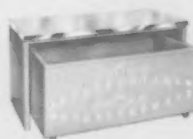
MOBILE CLASSROOM CABINETS

Fleetwood Furniture Company
Zeeland, Mich.

*Specification Sheets
Available Upon
Your Request.*

CABINETS FOR ANY CLASSROOM NEED

GRADE-AID[®]



DESIGNED to fit classroom needs

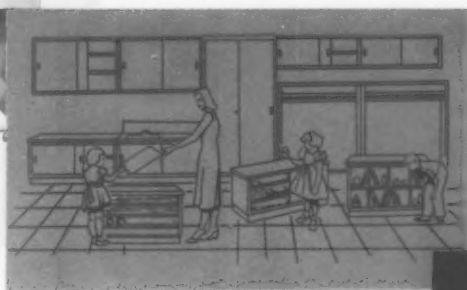
PRICED to meet all school budgets

BUILT to last the life of the school



MODULAR • MOBILE • ALL STEEL

classroom equipment



A.I.A. File No. 29-H-6
A.I.A. File No. 35-B-4

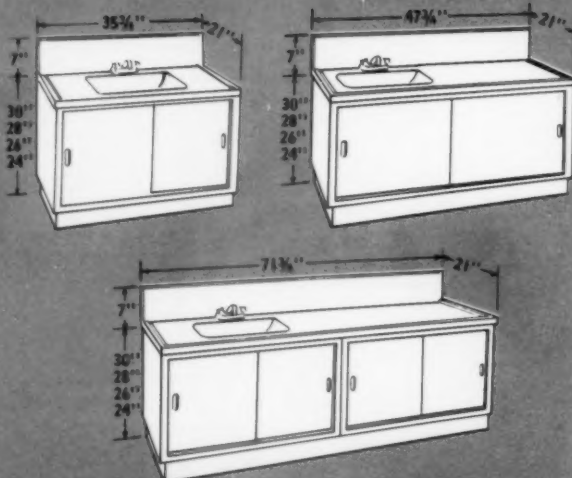
SCHOOL EQUIPMENT MANUFACTURING CORPORATION
46 BRIDGE STREET, NASHUA, NEW HAMPSHIRE, U.S.A.



GRADE-AID[®] all-steel MODULAR UNITS

SINK SERIES

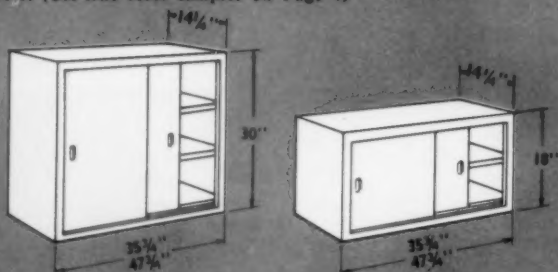
Grade-Aid all-steel sink units are available in a number of different sizes, heights, and tops to fit virtually any classroom and budget requirement. All have lifetime stainless steel bowls, with optional bubblers available at sink or at separate bowl. Standard chrome accessories are included. One-piece tops with 7" back-splash are of grey Melamine plastic on steel, or stainless steel. Sliding doors are finished in choice of 4 standard Grade-Aid colors (see true color samples on page 4).



WALL SERIES

GRADE-AID all-steel wall cabinets, available with or without sliding doors, are designed to provide excellent usable storage space above sink or counter units. Both 3' and 4' lengths are supplied in 18" or 30" heights with adjustable shelves.

All sliding doors are available in choice of 4 standard Grade-Aid colors. (See true color samples on Page 4)



cat. no. 1001

3' sink unit, shown with Melamine plastic top and bubbler at sink. (Not shown — CAT. NO. 1004 with stainless steel top.)



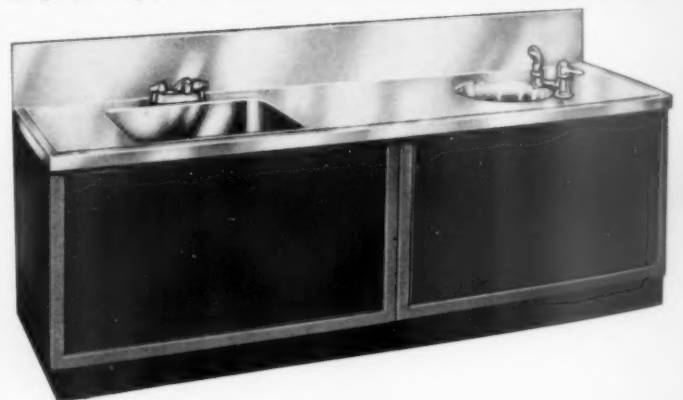
cat. no. 1002

4' sink unit, shown with Melamine plastic top, separate bubbler and bubbler bowl. (Not shown — CAT. NO. 1005 with stainless steel top.)



cat. no. 1006

6' sink unit, shown with single stainless steel top. Separate bubbler and bubbler bowl. (Not shown — CAT. NO. 1003 with plastic top.)



cat. no. 2001

48"x30" wall cabinet with 2 adjustable shelves and optional sliding doors. (Not shown — CAT. NO. 2002 36"x30".)



cat. no. 2003

48"x18" wall cabinet with 1 adjustable shelf and optional sliding doors. (Not shown — CAT. NO. 2004 36"x18".)

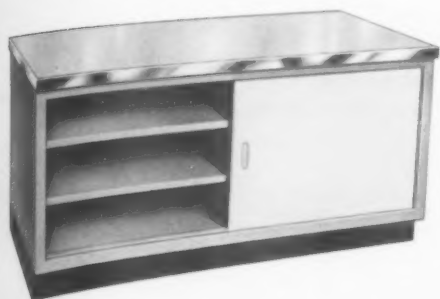


GRADE-AID

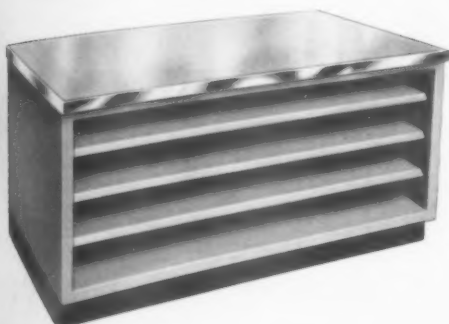
all-steel

MOBILE UNITS

D-5/Sc



cat. no. 3001
4' General Storage Unit.



cat. no. 3002
4' Paper Storage Unit.



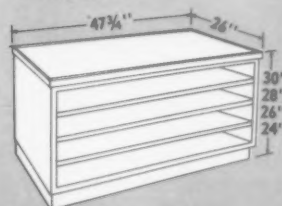
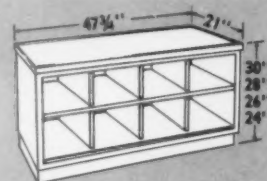
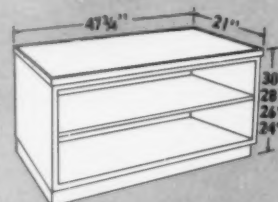
cat. no. 3003
4' Cubicle Storage Unit.

STORAGE SERIES

Grade-Aid all-steel storage units, with gray Melamine plastic on steel tops are mounted on casters or glides for easy and convenient use in any part of the classroom. General Storage, Paper Storage and Cubicle Storage Units are roomy and easy to clean.

General Storage Unit is available with one or more adjustable shelves with or without sliding doors, and optional casters.

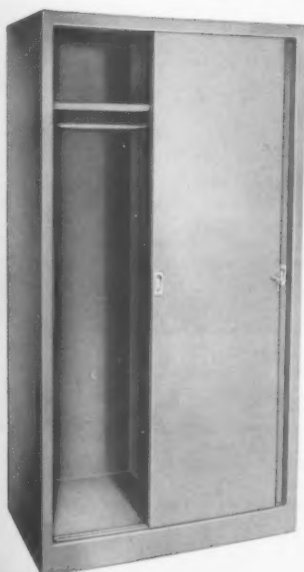
Paper Storage Unit, equipped with fixed shelves with special beveled front edges and optional casters. Cubicle Storage Unit with standard 8 cubicles is available with or without sliding doors and optional casters.



All sliding doors are available in choice of 4 standard Grade-Aid colors. (See true color samples on Page 4)



cat. no. 4001
Teacher's Wardrobe.

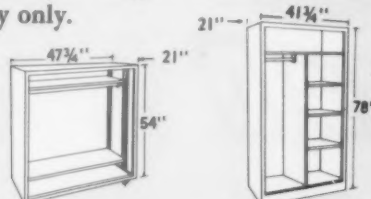


cat. no. 4002
Student's Wardrobe.

WARDROBE SERIES

Grade-Aid all-steel teacher's wardrobes, featuring a roomy hat-shelf, 3 adjustable shelves are designed to provide ample space for clothing, special supplies and file unit. Steel hanger rod, 3 coat hangers included, sliding doors and de-luxe lock included. Finished in gray only.

Grade-Aid mobile all-steel student's wardrobes, mounted on heavy rubber casters. In addition to 2 adjustable roomy shelves (one for hats, one for overshoes, rubbers, etc.) this wardrobe features Grade-Aid's exclusive removable Drip-pan under bottom shelf. Back construction incorporates tackboard project panel for full-time classroom use. Steel hanger rod with 15 non-detachable hangers included. Finished in gray only.





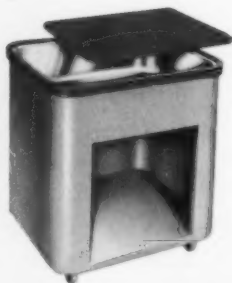
all-steel SUPPLEMENTARY CLASSROOM EQUIPMENT

MOBILE CART SERIES

Grade-Aid mobile all-steel units, mounted on easy-to-roll heavy-duty rubber casters, add extra working and storage space to any classroom. Finished in gray only.

cat. no. 5003

Clay Cart—stainless steel bowl holds up to 150 lbs. of clay or ceramics. Steel cover. Non-marking rubber bumper. 24" wide x 18½" deep x 22½" high.



cat. no. 5004

Utility Cart—durable Melamine plastic top work surface. Rounded corners. 39¾" long x 18½" deep x 28½" high.



cat. no. 5001

Toy Cart — Generous storage space for all classroom toys. 42" long x 21" deep x 19¼" high.



cat. no. 5002

Toy Shell — Toy cart housing with Melamine plastic on steel counter top work surface. 47¾" long x 21" deep x 24" high.

cat. no. 5005

Book Cart — A mobile "library" to meet classroom book storage requirements. 47¾" long x 15¾" deep x 35½" high.



STANDARD GRADE-AID COLORS:

Optional sliding doors are available in Gray, Coral, Yellow, Blue as shown below. These sample blocks have been reproduced as closely as possible to true color value. Actual baked enamel color chart is available upon request. Special door colors available at extra cost.

BLUE

CORAL

YELLOW

GRAY

GENERAL SPECIFICATIONS

All cabinets shall be shipped set up to eliminate on-the-job assembly.

All cabinets shall be constructed to a minus(-) tolerance to allow for proper allowance in classrooms for 4' modular units.

All plumbing connections and wall installation work to be made by others.

All steel cabinets no lighter than 20 gauge.

All steel parts shall be degreased and a 60-90 mg per square foot phosphate coating applied then sprayed with Hi-bake enamel to withstand approximately 250 hour salt spray test.

All cabinets shall be Grade-Aid gray with choice of Grade-Aid gray, coral, yellow or blue on sliding doors.

All bases shall permit choice of casters, glides or leveling bolts.

All bases shall have a front toe space and a back mop board recess.

All cabinets available with sliding doors shall be provided with a track filler when cabinets are ordered without doors.

STAINLESS STEEL TOPS

All GRADE-AID stainless steel tops shall be of #16 gauge stainless steel, die formed and welded into one piece. No exposed bolts or screws shall be used for fastening top to base cabinets. The underside of the stainless top shall be

bonded to the tops of the steel cabinets for flatness and sound deadening. Back splash 7" high, integral with top, shall be supplied. All edges shall be die formed into channel shape. Top shall be die depressed to form ¼" raised edge along working sides with corners rounded and welded. No solder shall be used in fabrication. The entire top shall be finished to a #4 Mill finish without waves or streaks. All sink bowls shall be seamlessly welded by Heliarc process to the top as a continuous unit.

MELAMINE PLASTIC TOPS

All GRADE-AID Melamine plastic tops shall consist of at least 1/16" material bonded to #18 gauge cold rolled steel. Liquid plastic may not be substituted. All trim shall be stainless steel with no exposed bolts or screws. Plastic top shall be equipped with a stainless steel bowl. A Houder rim shall be used. Back splash shall be 7" high.

PRICES

Prices quoted are firm for a period of sixty (60) days after contract is awarded. Prices at which orders are accepted by the factory will be firm for delivery within eighteen (18) months from date of purchase orders. If delivery is extended beyond eighteen (18) months from date of purchase orders, prices at which purchase orders were accepted, are subject to change. All purchase orders are subject to acceptance by factory.

DISTRIBUTION

GRADE-AID ALL-STEEL CLASSROOM EQUIPMENT IS SOLD AND DISTRIBUTED NATIONALLY. FOR NAME OF NEAREST DEALER OR REPRESENTATIVE WRITE TO: SCHOOL EQUIPMENT MANUFACTURING CORP., 46 BRIDGE STREET, NASHUA, NEW HAMPSHIRE

Printed in U.S.A.

FORM NO. GA-1 9-57



SCHOOL EQUIPMENT MANUFACTURING CORPORATION

46 BRIDGE STREET, NASHUA, NEW HAMPSHIRE U.S.A.

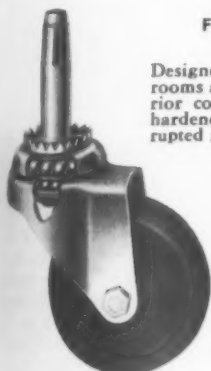
Subsidiary of The Maine Manufacturing Company, Established 1874

FAULTLESS CASTER CORPORATION

DEPT. SU-58-59

Representatives in Principal Cities • Evansville, Indiana • Canadian Factory: Stratford, Ontario

NOELTING Faultless Casters



FAULTLESS DOUBLE BALL BEARING CHAIR CASTERS

Designed especially for use on chairs in offices, study rooms and libraries, where quiet is essential. Of superior construction, this caster has two full rows of hardened ball bearings swiveling freely in uninterrupted raceways. Low over-all height, dust-proof construction. Bearings lubricated at factory. Furnished with either Ruberex (cushion tread) or Plaskite (hard tread) wheel. A very easy swiveling caster.

Style No.	Kind of Wheel	Diam. of Wheel	Wt. Per Set of 4
2478	Ruberex	1 1/2"	1 Lb. 6 oz.
2479	Ruberex	2"	1 Lb. 11 oz.
2378	Plaskite	1 1/2"	1 Lb. 3 oz.
2379	Plaskite	2"	1 Lb. 8 oz.

Packed one set in a box.
Size Bore 3/8" x 1 1/4".



FAULTLESS DOUBLE BALL BEARING MEDIUM DUTY TRUCK CASTER

Faultless Medium Duty Truck Caster has two complete ball races, using best grade balls, all bearing surfaces hardened, special king pin construction, dust-proof. Furnished with Roller Bearing Ruberex or Plaskite wheels. A very strong, durable caster.

Style No.	Kind of Wheel	Diam. of Wheel	Mounting Hole Spacings	Lbs. Cap. Each
1123-3	Ruberex	3"	3 x 3	175
1123-4B	Ruberex	4"	3 x 3	240
1131-3	Plaskite	3"	3 x 3	300
1131-4	Plaskite	4"	3 x 3	350

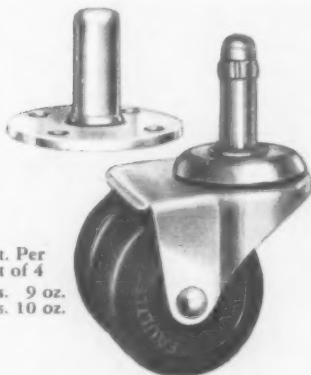
Rubber Tired Wheels available

FAULTLESS DOUBLE WHEEL PIANO CASTER

This double wheel, double ball bearing, noiseless Piano Caster has two rows of ball bearings operating in lubricated hardened raceways. Used with No. 98B socket. Wood Ferrule for use over socket for large drilled hole. Supplied with a plate, where this type is needed.

Style No.	Diam. of Wheel	Kind of Wheel	Wt. Per Set of 4
EW479-2	2"	Ruberex	3 Lbs. 9 oz.
EW379-2	2"	Plaskite	3 Lbs. 10 oz.

Socket Size Bore, 3/8" x 1 1/2".
Packed one set in a box.



FAULTLESS DOUBLE BALL BEARING MEDIUM DUTY TRUCK CASTER

This Faultless Rigid Truck Caster is a desirable companion to the 1100-Series. Made of extra heavy gauge steel. The 1700-Series Rigid and 1100-Series Swivel Casters have the same mounting hole positions and same over-all height, for interchangeability and quick replacement.

Style No.	Kind of Wheel	Diam. of Wheel	Mounting Hole Spacings	Lbs. Cap. Each
1723-3	Ruberex	3"	3 x 3	175
1723-4B	Ruberex	4"	3 x 3	240
1731-3	Plaskite	3"	3 x 3	300
1731-4	Plaskite	4"	3 x 3	350



FAULTLESS DESK CUPS

Faultless Ruberex (soft) or Rockite (hard) Desk Cups are of nonbreakable, rust-proof composition, in a harmonizing brown shade.

Round Shape Desk Cups

RUBEREX Style No.	ROCKITE Style No.	Wt. Per Set of 4
RC 4138	RC 7138	6 oz.
RC 4158	RC 7158	7 oz.

Square Shape Desk Cups

RUBEREX Style No.	ROCKITE Style No.	Wt. Per Set of 4
SC 4112	SC 7112	8 oz.
SC 4134	SC 7134	9 oz.
SC 4200	SC 7200	13 oz.
SC 4258	SC 7258	15 oz.

Packed one set in a box.



FAULTLESS DOUBLE BALL BEARING MEDIUM-HEAVY DUTY TRUCK CASTER

This Faultless Double Ball Bearing Swivel Caster is a Companion Caster to the 9700 Series Caster. Furnished with Rubber Tired, Ball Bearing Wheel.

Style No.	Diam. of Wheel	Mounting Hole Spacings	Lbs. Cap. Each
917-5	5"	4 1/4" x 4 1/2"	500
917-6	6"	4 1/4" x 4 1/2"	650
917-8	8"	4 1/4" x 4 1/2"	500

FAULTLESS CUSHION CHAIR GLIDES

FAULTLESS Cushion Chair Glides are made of hardened steel with cushion rubber insert insulation. Rounded corners permit chairs to be moved easily over floors. Drives on the chair with hammer. No holes to drill. Packed 5 sets in a box.



Flexible Cushion
Chair Glide

Cushion Chair Glide
Rubber Expansion Sockets

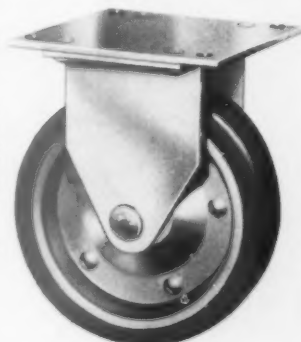
Style No.	Diameter of Base	Style No.	Socket No.	Diameter of Base	To Fit Tubing Inside Diameter	Outside Diameter
CNS 078	3/8"	ERS 078	176	3/8"	.527	3/8"
CNS 116	1 1/8"	ERS 078	177	3/8"	.652	3/4"
CNS 114	1 1/4"	ERS 116	179	1 1/8"	.902	1"
CNS 112	1 1/2"	ERS 116	192	1 1/8"	.870	1 1/8"

Other sockets available for both round and square tubing.

FAULTLESS DOUBLE BALL BEARING MEDIUM-HEAVY DUTY TRUCK CASTER

This Faultless Rigid Plate Caster is a Companion Caster to the 900 Series Swivel Plate Caster. The heights are identical with the 900 Series. Heavy steel formed side riveted to top plate. Furnished with Rubber Tired, Ball Bearing Wheel.

Style No.	Diam. of Wheel	Mounting Hole Spacings	Lbs. Cap. Each
9717-5	5"	4 1/4" x 4 1/2"	500
9717-6	6"	4 1/4" x 4 1/2"	650
9717-8	8"	4 1/4" x 4 1/2"	500



BORROUGHS MANUFACTURING COMPANY

A SUBSIDIARY OF THE AMERICAN METAL PRODUCTS COMPANY OF DETROIT

3062 North Burdick St., Kalamazoo, Michigan

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meet the needs of schools and universities everywhere

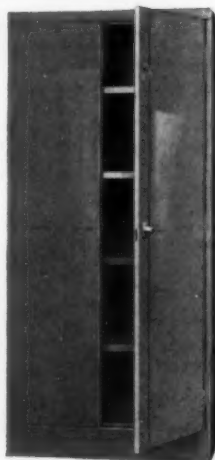


SLIDING-DOOR CABINETS

Steel door cabinets in 3 heights—29", 42", 78". Glass door cabinets in 2 heights—29", 42". All cabinets are 36" wide outside, and 12" or 18" deep. Easy gliding, sliding doors can be removed in seconds. Sliding shelves are adjustable without bolting . . . $\frac{3}{4}$ " vertical adjustment on 29" and 42" models—1 $\frac{1}{2}$ " on 78" model.

SWING-DOOR CABINETS

3 standard models—supply—combination—wardrobe. All units are 36" x 78", in 18" and 24" depths. Safe-like swinging doors with single handle control. Shelves adjustable on 1" centers without tools. Smooth interiors.



WRAP RACKS

3 standard units to hold 6, 9 or 12 coats and hats. The 9- and 12-capacity models are available in double face units—and "add-units" may be added. Wrap Check Racks are also available, in 3 standard units to accommodate 12, 16 or 20 coats and hats (4 of each per foot). Wrap Racks and Wrap Check Racks obtainable in hanging wall models also.



All Borroughs furniture units are available in 4 colors: Spring Green, Dark Green, Gray, Fall Tan . . . shop equipment in Gray or Green . . . all in electrostatic baked-on enamel.



BOOKCASES AND SUPPLY CABINETS

36" wide outside. Heights of 29", 42", 78", 84"—depths of 12" and 18". All units, except 29" and 42", are obtainable with open or closed backs, single or double face. The 29" and 42" units can be converted to sliding-door cabinets with glass, steel or Borite doors, and the 78" unit with steel doors. No doors available for the 84" unit. All cabinets have sliding shelves adjustable without bolting . . . $\frac{3}{4}$ " vertical adjustment on 29" and 42" models—1 $\frac{1}{2}$ " vertical adjustment on 78" and 84" models.



LIBRARY SHELVING

3 heights—42", 84", 90". Sliding shelves, 9 $\frac{3}{4}$ " deep, adjustable without bolting, on $\frac{3}{4}$ " centers. Width of units 36" outside. Open or closed backs. Single or double face. Open back units have corner bracing.



STEEL SHOP EQUIPMENT

While meeting the many exacting needs of business and industry, Borroughs steel shop equipment is also ideal for various operations in schools and universities.

Send for special literature
on the Borroughs lines

THE NATIONAL CASH REGISTER COMPANY

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"In addition to payroll writing, these

Nationals are used for cost distribution, bond purchases, government reports, security benefit plan, general ledger, cost ledger, sales analysis, age analysis, work orders, production control and scheduling, inventory control, accounts receivable, and accounts payable.

"We are impressed with the ease and simplicity with which the equipment operates."

J. Williams

Controller, Pittsburgh Plate Glass Company

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Cincinnati 12, Ohio

G/W STREAMLINER[®] DESKS AND TECHNIPLAN[®]

Globe-Wernicke STREAMLINER METAL DESKS... the favorites of educators all over America. Teachers and administrators are discovering the comfort and working conveniences of these modern, fatigue-reducing desks. Streamliner Metal Desks feature sound insulation, adjustable island bases (or fiber glass legs), and the famous Arc-Swing typewriter platform. Available in molded or square-edge tops. Choice of four attractive standard colors. Write for free Streamliner catalog No. 1456, Section B.



Streamliner Administrator's Desk—
60-inch Top



Streamliner Instructor's Desk—
60-inch Top with 15-inch overhang



L-shaped Techniplan Administrator's
Unit with 66-inch Auxiliary Top

Globe-Wernicke TECHNIPLAN offers administrators and instructors a maximum working area in a minimum of space. All components are standard and interchangeable making many custom-made arrangements possible. For complete information on Globe-Wernicke Techniplan, write for free Techniplan catalog No. T-357.

G/W FINE-REST ALUMINUM CHAIRS

Globe-Wernicke's Fine-Rest aluminum chairs ring the bell for comfort and durability. Their rugged, No-Sag springs and foam rubber cushioning offer sure, fatigue-free support. Careful construction assures years of service. Wide choice of fabrics and colors. Write for brochure.



(S-425-A)
Tilting swivel arm chair
adjustable for height and
tension.



(ST-300-SWS)
For rugged use anywhere
in school. Note slanted
"Wall-saver" rear legs.



(SP-550)
Secretarial Posture Chair
with five adjustments to
suit the individual.



(ST-450-AWS)
Matching side arm chair,
featuring slanted, "Wall-
saver" rear legs.

G/W FILES

Globe-Guard Files

Globe-Wernicke Metal Files give your school record-keeping department modern efficiency and appearance. Drawers are equipped with progressive ball bearing suspension slides for smooth, easy, quiet operation. Available in letter, legal, and card sizes in 2-, 3-, 4-, and 5-drawer heights in four standard colors. Insert drawers available for all types special-purpose filing. Lock may be obtained if desired.



Duro-Guard Files

Duro-Guard Metal Files give you high quality filing space at a thrifty price. A variety of insert drawers adapt Duro-Guard Files to all school filing needs. Drawers are firmly suspended so they roll freely under the heaviest loads. Automatic stops prevent accidents. Letter and legal size Duro-Guard Files are available in 2-, 3-, and 4-drawer heights, in your choice of four attractive colors.



Write for brochure on GLOBE-GUARD and DURO-GUARD Files.

THE GLOBE-WERNICKE CO.

G/W STEEL BOOK STACKS

Steel Book Stacks are available in bracket or standard type. Bracket-type is free-standing or multi-tiered, single or double faced, in 7'6" standard height and 3' compartment widths; have seven shelves. The advantages of Globe-Wernicke metal library book stacks and accessories are fully described in catalog 318. Write for your free copy.



G/W SECTIONAL METAL BOOK CASES

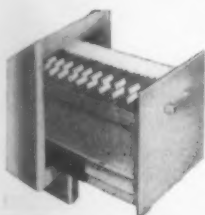
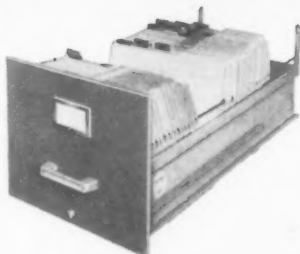
Attractive Globe-Wernicke sectional book cases are precisely built of quality furniture steel to assure many years of service. Unit illustrated has sliding glass doors (hinged receding doors also available) and enclosed base for "built-in" effect. Assembled from standard components, it is complete, yet ready for rearrangement to solve any book storage problem. Write for free catalog #1456 Section E.



G/W FILING SYSTEMS

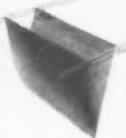
Safeguard filing system with Tri-Guard principle

Globe-Wernicke Safeguard is the exclusive color-keyed filing system providing instant, accurate record control, meeting all record-keeping requirements. Available in letter, legal, or card sizes . . . in sets of 25 A-Z to 3000 A-Z. TRI-GUARD, Globe-Wernicke's triple support filing principle, eliminates slumping, disorderly files. Self-adjusting V-Shaped pockets provide "motion-saving" work space and increased operating efficiency. Write for free Tri-Guard and Safeguard filing system information, catalog SG-656.

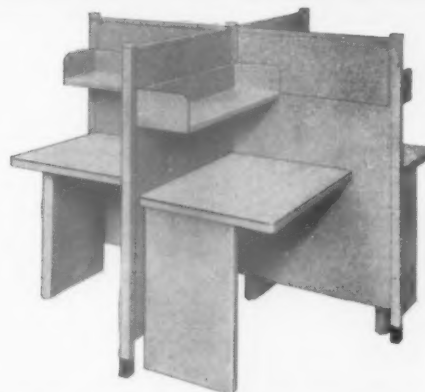


Verti-Swing® hanging folders

Globe-Wernicke Verti-Swing hanging folders keep important filed records neater, longer. Extra strong folders feature permanent, rounded, plastic-coated rods. Slanted tabs insure instant visibility.



G/W FREE-STANDING STUDY CARRELS



Globe-Wernicke free-standing carrels permit distraction-free study in a minimum of floor space. Made up of standard components, they can be easily assembled and reassembled in multiple combinations to fit any area and provide the greatest possible flexibility for your library.

Write for complete information in our new free catalog #1357-A.

G/W STREAMLINER TABLES

Spacious, sturdy Globe-Wernicke Streamliner tables function perfectly in class rooms, offices, study halls, and libraries. Top surfacing is linoleum or laminated plastic. Available in seven widths, four colors. Write for catalog #1456 Section B.



The Globe-Wernicke Co. • Cincinnati 12, Ohio

REMINGTON RAND

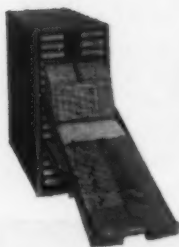
Division of Sperry Rand Corporation

Room 2956N, 315 Fourth Avenue, New York 10, N. Y.

SYSTEMS—EQUIPMENT—SUPPLIES

A complete line of Remington Rand® Business Machines, equipment and supplies is available for your school office, classroom or library. Whatever your need you'll find it doesn't cost—it pays to give us the responsibility for your installations.

VISIBLE RECORD SYSTEMS



PERMANENT RECORD INDICATES PROGRESS DURING THE GRADES											
NAME	GRADE	1	2	3	4	5	6	7	8	9	10
Brown	Michael	2499	7th	Av.	Av.	2-3100					
Barbo	Marcel	162	12th	St.	St.	5-4563					
Coffert	James	145	6th	St.	St.	5-0908					
Cagney	Raymond	700	W. 14th	St.	St.	4-5766					

Kardex® puts facts at your finger tips. Completely centralizes your records. Saves time by selecting items requiring immediate attention. Widely used for: Pupil History, Guidance and Attendance; Purchase and Stock; Budget, Health, Financial and Text-book Records.

AUTOMATIC FIGURE WORK CALCULATOR AND ADDING MACHINE



The "99" Printing Calculator provides fully automatic figure-work performance including credit balances and new, exclusive Simpla-Tape, for printed proof of accuracy.

TYPEWRITERS TO FIT THE JOB



The Remington Electric typewriter is the greatest short cut ever devised for the learning of typing.



Remington Standard®—the most highly responsive, smoothly rhythmic manual typewriter available today.



Remington Rand All-electric Adding Machine, 10-Key Touch Method operation. Perfect for teaching or office work. Cushioned power minimizes noise and vibration.

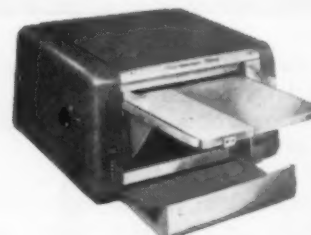
PHOTOGRAPHIC EQUIPMENT TO SPEED OFFICE PAPER WORK AND PROCEDURES



Single-unit Transcopy® Meteor exposes, develops and prints photocopies in seconds... under any lighting conditions. Portable, easy to operate, plugs into any socket. 100% accurate.



Remington Rand Dexigraph® produces up to 300 transcripts per hour. Copies same size or reductions down to 50%. Requires no plumbing, no special wiring. Can be moved room to room.



Microfilm Camera Model 8 films student history cards for fast reference—low cost storage. Choice of 24 to 1, or 40 to 1 reductions. Has big machine precision.

REMINGTON RAND

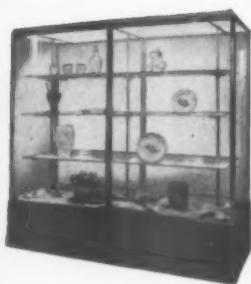
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for every school budget by Remington Rand

FURNITURE BY LIBRARY BUREAU

TRADEMARK



Cases of Distinction have new "Fluid" lighting system that gives shadowless light. Dust and vermin proof. Table and upright models—lighted and unlighted.



Trend Library Furniture assures lasting beauty. Combines flush construction and rounded corners to eliminate dust, reduce splintering. Refurnishing or expanding, select Trend—the library furniture with the smart, modern look. Write for free booklets "Library Bureau Furniture" and "Planning the School Library."

EQUIPMENT FOR SCHOOL ADMINISTRATIVE OFFICES



Aristocrat® Lifetime Files. 3-drawer Aristocrat files with continuous linoleum tops, banded with metal edges, offer your office step-saving efficiency plus lifetime beauty.

FIRE-SAFE PROTECTION FOR SCHOOL RECORDS

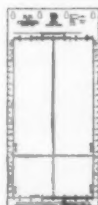


Certified Safe-File® protects your valuable records. Files are certified safe from heat of 1700°F. for at least one hour. Available for housing all card, letter or legal-size records.



Safe-Cabinet®—certified for one, two or four hours against fire. Available with adjustable equipment for card index drawers, file drawers, document files and shelves.

COST-CUTTING SUPPLIES FOR OFFICE AND CLASSROOM



Remington Rand Patrician® Ribbon, made of imported cotton, 1/8 longer. Line-a-time® holds copy at correct angle, prevents errors. Beautyrite® Carbon Paper assures crystal-clear carbons. Procel Stencils, with plastic coating, ideal for illustration and form work. Use Remington Rand Supplies and note how you save.

For complete information call your local Remington Rand office, or write Room 2958C, 315 Fourth Avenue, New York 10, N. Y.

Remington Rand

DIVISION OF SPERRY RAND CORPORATION



WESTERN MANUFACTURING CO.

Aurora, Illinois

WESCO

A competitive line, built to sell in competitive times, Wesco is styled with an elegance to suit the most discriminating taste; quality engineered to give long service, and priced in a range that is within reach of the most economy minded buyer.

Write for full information on Wesco's matched line of desks and filing cabinets. You will see why they are recognized as the leader in the moderate price field.



FASHION-AIRE DESK

Molded pedestal bottoms. Tapered islands. Pop-out, sound proof dictation slides. Available with molded or square edge top. 29 standard models with matching executive line companion pieces.



ECONOM-AIRE DESK

Tapered islands. With or without a center drawer. Clean styling and the best construction in the low priced field.

*The Quality
The Style
The Price*

**THE LINE
THAT HAS
ALL THREE**



2800 FILING CABINET

28" deep. Reinforced with 6 vertical uprights. Spring loaded side locking follower block. 10 roller cradle suspension slide. In 2, 3, 4, or 5 drawer heights. Field installed locks.



2900 FILING CABINET

28" deep. Strongly reinforced. Spring loaded side locking follower block. 10 roller cradle suspension slide. Field installed locks. Cast aluminum hardware. Thumb latch on drawers.



400 FILING CABINET

28" deep. 10 roller cradle full suspension slide. Side locking drop type follower block, spring loaded. 2 or 4 drawer heights. Field installed locks. Full pan bottom. Economical price.



1500 FILING CABINET

Nationally recognized leader in the non-suspension field. Silent whispering operation on nylon rollers. 25" deep. Field installed locks available. 2 or 4 drawer models. Letter and legal size.

New York Display and Representative: Arthur Gordon Co. Associated, 206 Lexington Ave., New York 16, N.Y.
Chicago Showrooms: Polk Bros. Central Appliance and Furniture Co., 2850 North Central Ave., Chicago, Ill.

Art Metal

SCHOOL OFFICE and LIBRARY EQUIPMENT

Art Metal offers more than 70 years experience in the design, construction, and installation of metal office furniture, school, and library equipment. Art Metal also provides the highest quality and service at the most reasonable cost. Our reputation among leading school administrators is based on this ability.

On these pages, Art Metal presents a complete line of equipment which meets all requirements of teachers, librarians, principals, and other school administrators from elementary grades through university levels. Each line has its own complete catalog. For prompt delivery of catalogs write Art Metal Advertising Dept., Jamestown, N. Y. for any catalog desired. No obligation.

In addition, architects and school executives are invited to make use of our consulting staff in planning administrative offices, teaching stations, libraries, and other departments.

UNITYPE Bookstacks . . . a complete library from one basic unit plus adder units

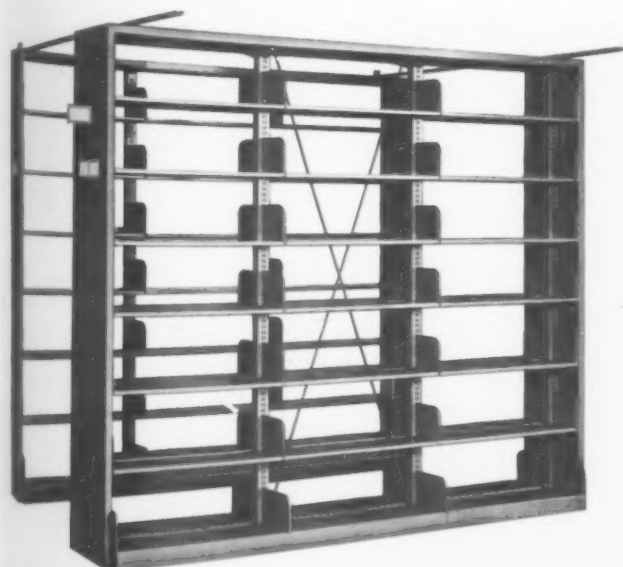
From a basic unit consisting of two steel support columns, and seven adjustable shelves and using adder units as required, a complete library, limited in size only by the amount of available room and budget, can be erected to serve the library needs of *any* school from elementary grades to colleges and universities.

Art Metal UNITYPE bookstacks are the most inexpensive and ideal method for the open storage of books. Adder units hook quickly on to basic unit to make any length range desired.

UNITYPE stacks are available single or double-faced, in 36" and 30" shelf widths and in 8", 10", and 12" shelf depths. Standard height of the support columns is 90". With the open-base type, seven adjustable shelves are furnished . . . with the closed-base, six with closed base itself acting as a seventh shelf.

For a completely finished appearance, finished end panels as well as top plates may be added. Accessories include rangefinders, labelholders, and book supports. Carrel desks and book trucks round out the line.

Elementary school library showing practicability of Art Metal's single-faced Unitype Bookstacks. Back panels present finished appearance behind shelves . . . economically separate office space from library space. Librarian has removed one shelf . . . adjusted remaining shelves to accommodate large-size children's books.



Three double faced bays of Art Metal Unitype Bracket Bookstacks above consist of one starter unit Style 2228 and two adder units, Style 2228A. The single faced bays consist of one starter unit Style 2218 and two adder units, Style 2218A. Finished end panels and top plates are added to give complete cabinet-type enclosure.



LIBRARY BOOK UNITS installed and moved like furniture

Art Metal Library Book Units are factory assembled . . . nothing to do on arrival but place in position and insert shelves at desired heights. Made in both single and double-faced styles . . . with or without backs . . . in 42", 84", and 90" heights. 42" unit has two adjustable shelves . . . the 84" and 90" units are furnished with six. Shelves are 9" deep and adjustable one inch on centers with gravity slots to prevent accidental removal. The 2100 line of Library Book Units are neat in appearance . . . sturdy in use. May be used anywhere that open storage for books is desirable.



Style 2118 book unit with detachable finished end panel.



Detachable finished end panel for single or double faced units.



Style 2118 book unit without finished end panel. Used for addition to original unit.



Art Metal 2100 Line Book Units in the curriculum library at the Fort Hays Kansas State Library, Hays, Kansas.

OVERALL UNIT SIZES:

9 $\frac{1}{8}$ " deep
(single face),
19 $\frac{1}{8}$ " deep
(double faced)
and 36" wide.

CLEAR SHELF SIZE IS:
34 $\frac{3}{8}$ " W., 9" deep.
Opening behind shelves
increases book space
to 9 $\frac{3}{4}$ ".



Style 21145 counter-height book unit with detachable finished end panels. (equipped with sloping base shelf.)

ART METAL MULTI-FILES PROVIDE 33 $\frac{1}{3}$ % MORE COUNTER FILE CAPACITY

The space-saving answer to keeping extremely active school records within convenient reach *at the counter* ready for instant referral. Now . . . 4 drawers in the *same* counter height occupied by 3-drawer counter files. An actual 33 $\frac{1}{3}$ % increase in file capacity.

For all-round general use in school offices, the Multi-File space-saver steps up filing capacity 20%, 25%, 33 $\frac{1}{3}$ %, and even 100% depending on the number of drawers in the Multi-File cabinet selected and the size of files replaced. Available in 4, 5, and 6-drawer cabinets.



STYLE 8161
6-Drawer Multi-File

5-Drawer
Conventional File

6 drawers
in space of 5

GAIN
20%

capacity on same
floor area



STYLE 8151
5-Drawer Multi-File

4-Drawer
Conventional File

5 drawers
in space of 4

GAIN
25%

capacity on same
floor area



STYLE 8141
4-Drawer Multi-File

3-Drawer
Conventional File

4 drawers
in space of 3

GAIN
33 $\frac{1}{3}$ %

capacity on same
floor area

ART METAL ANTICIPATES THE NEEDS OF MODERN EDUCATION

From the requirements of the smallest school office to the growing office requirements of the nation's largest schools and universities . . . Art Metal anticipates the need and designs and constructs equipment to meet this need . . . economically.



ART METAL DESKS AND CHAIRS

A complete line of the finest desks and chairs for school executives, department heads, teachers, and general office use. Art Metal "Work Planned" desks have everything modern classrooms and school offices demand in appearance, convenience, resistance to use plus many extra features found in no other line.

Art Metal "Correct Seating" Aluminum Office Chairs combine smart styling with exclusive Art Metal comfort features. They increase efficiency by reducing fatigue.



STORAGE CABINETS

For storing and protecting school supplies neatly, compactly . . . close to actual work areas. Art Metal 4-shelf Storage Cabinets are 78" high, 36" wide, 19 1/2" deep. Double doors are flanged and channeled for strength . . . are mounted on three pairs of nearly concealed hinges. Shelves adjustable at 1" intervals. Cabinets with locks available.



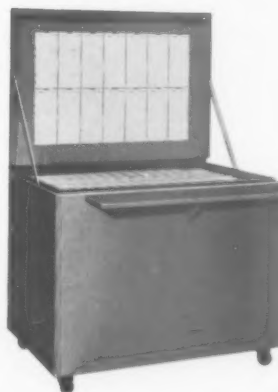
LETTER AND CARD RECORD FILES

There is an Art Metal File to meet every school office need in 2, 3, 4 or 5 drawer heights. A wide range of card record files provide for the varied sizes of pupil records which are required in most school administrative offices. Standard letter and legal drawer and card record files, Widesections, Halfsections and substitute drawer inserts permit the utmost in flexibility of arrangement.



WABASH FILING SUPPLIES and SYSTEMS

There is a Wabash System that will make filing and finding easier and faster. With the Wabash Airline System, you can find any paper almost instantly because you find it with the eyes instead of the hands. For card indexes, the Wabash new natural system of indexing makes filing of any card only a matter of seconds. Complete systems may be planned to meet every special requirement.



ART METAL PLANFILES

The Superintendent of Buildings and Grounds will find the Art Metal Planfile ideal for preserving all the valuable plans concerning school properties. Special Planfile construction features protect against fire, water, and dust damage while providing a fast, simple means of locating drawings. Available in four sizes . . . for drawings up to 56" wide.



BOOKCASES

Art Metal Executive and General Office Bookcases are strongly built . . . will give lifetime service . . . are especially suited to school use. Disappearing glass doors cannot jam or stick. Sectional feature permits you to start with one section plus a top and base . . . add extra sections as needed. Attractive, durable finishes. Available in a wide range of sizes.

Library Furniture



LIBRARY DIVISION

STANDARD WOOD PRODUCTS CORPORATION

NEW YORK 19, N. Y.



The earliest library, a temple, consisted of some 10,000 distinct works, scribed on tablets of clay, and open to the public. Since the colonial period in the United States, libraries have continued to progress in scope and functional design. As early as 1638 the first college library was established, followed in 1876 by the public library.

Before the establishment of modern libraries as they are known today, great collections were kept on simple shelves or in cupboards, and on clumsy pulpit-like counters. With the ever increasing number of books being published, a more scientific approach to library planning became necessary. Modern architecture has contributed well lighted buildings and has created the need for specially designed efficient library furniture.



Standard Wood Products Corporation has developed the new DONNELL LINE, named for the latest branch of the New York Public Library. Every unit is precision planned for the utmost expediency in administering library functions. Extremely durable in construction with special attention given to the lasting beauty of a fine piece of furniture.

A modern building completely installed with this fine library furniture is the answer to today's needs for those millions who borrow books or make use of library reading rooms.

library furniture

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facts about our library equipment

design

Today's ever increasing use of libraries has demanded an entirely new standard in furniture design. It must be functional, yet planned with an eye to aesthetic beauty, creating efficient and pleasant surroundings.

Our new line of library furniture, functional in design and assuring maximum durability, was created by our technical staff in collaboration with the consulting designers of the New York Public Library for their latest branch, the Donnell Building, a six story modern library.



materials

lumber is of selected quality, air and kiln dried to a moisture content of 5 to 7% at time of machining and assembling. All exposed woodwork is of northern hard maple, free from imperfections and selected for uniformity of color, figure and grain. Lumber used in the unexposed parts of units is of a suitable soft or hard wood. All drawer and tray bodies are of maple, birch or oak as specified. Uprights of card catalog files and the top front moldings of charging desk units are of "Densi-Wood." Desk tops are supplied with first grade linoleum.

library furniture

hardware used in exposed sections is of genuine cast bronze, satin polished. Unexposed hardware is either of rustproof material, or plated to guarantee rust prevention. All movable items of furniture are equipped with glides.

glass is selected flat drawn sheets, grade A double strength, glazing quality, free from all imperfections.

guarantee All merchandise is guaranteed against warping, checking, splitting or faulty workmanship for a period of one year.

construction

Table tops are of 5-ply lumber core construction of the thickness specified. Edges are bevelled back and a $\frac{3}{8}$ " thick protective hardwood nosing is tongued into the top. This construction assures stability, warp-free and check-free characteristics.

The mortise and tenon method of joinery is used extensively. Drawer and tray joints are dovetailed. Shelving is of a demountable and sectional type, secured with concealed bolts.

finish

All surfaces are carefully sanded and prepared for finishing. After staining and filling the wood, one coat of sealer and two coats of superior grade lacquer are applied to every piece. The final coat is hand rubbed to a beautiful satin patina. Units are finished in the three shades that are standard in library furniture:

#1000 finish—a soft shade of gray that allows the transparency of the finish and wood grain to show to the best advantage.

#2000 finish—the same high quality finish in a light tan coat.

#3000 finish—a Circassian walnut finish on maple.

quality

Each piece of library furniture is the result of highly skilled, precision craftsmanship and constant product improvement. Years of experience in the execution of fine furniture, the latest and most modern equipment are employed in the construction of our units. Standard dimensions are always maintained, so that units may be added or interchanged as needed. Our high standard of quality is proven by years of service and wide acceptance of our furniture by boards of education and architects.



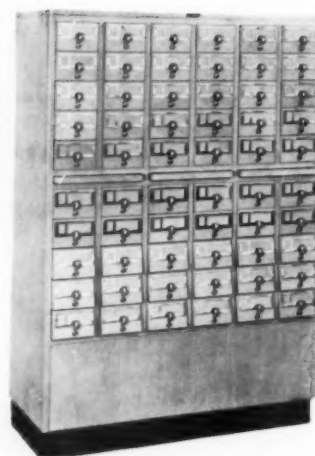
Card catalog units are fabricated of selected maple, modular in design and construction, and are available in multiples of 5, 10, or 15 tray units. Units are intermembering and any combination of five can be obtained by adding units as required. Drawers are dovetailed front and back, and have a capacity of approximately 1200 3" x 5" or 7.5 x 12.5 centimeter cards. Drawer backs are 1/2" thick.

Sixty tray cases are of flush construction with an enclosed base. A setback is provided at the bottom and covered with dark green linoleum to harmonize with the other units of library furniture in which we furnish linoleum.

The vertical uprights are faced with a 1/2" thickness of "Densi-Wood" to eliminate the denting and splintering otherwise caused by repeated tray impact. Trays are available with either the standard or double compartment ring pull, sloped fronts, or with both.



129-47



130

126-30



126-15



126-12TB

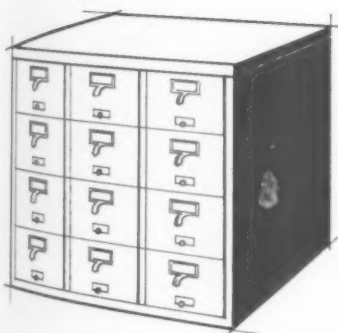
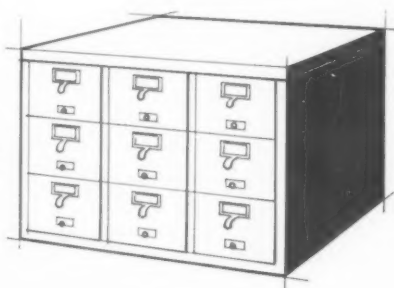


card catalog units

combination file and atlas case

A newly designed unit intended to supplement regular drawer card catalog cases, atlas stands and filing cabinets in large libraries, and ideal as a substitute for that equipment in smaller libraries where space is at a premium. Featuring warp- and check-free construction, dovetailed joints, hand rubbed finishes in three shades, satin-finished bronze hardware, mortise-and-tenon joining and protective hardwood nosing, the Combination File and Atlas Case provides 30 file card drawers, atlas space and 4 letter size file cabinet drawers.

126-9



126-12

129-15



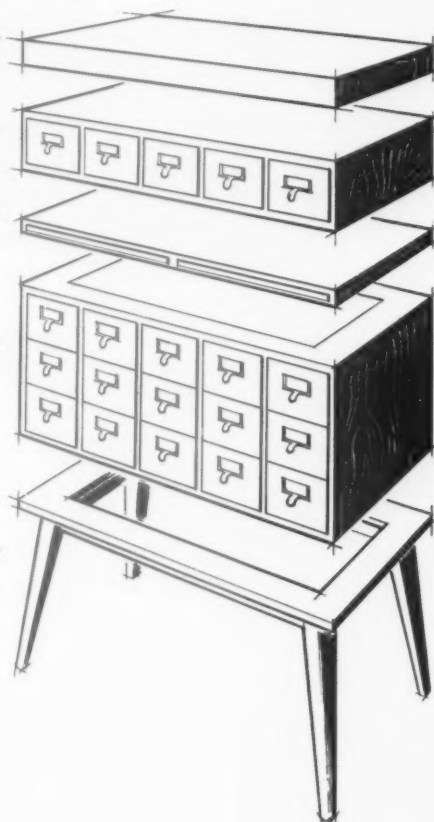
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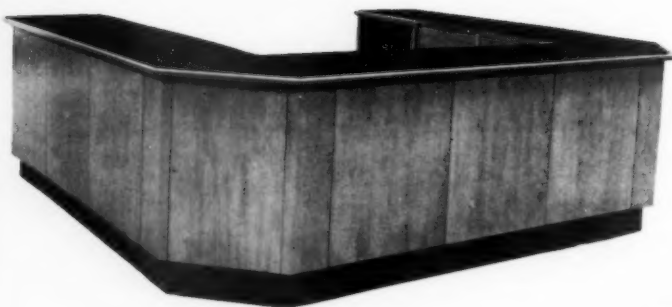
125

126

127



cat. no.	description
130	60-drawer card catalog unit 40" wide x 17 $\frac{1}{4}$ " deep x 59" high
126-30	30-drawer card catalog file 33 $\frac{1}{2}$ " wide x 17 $\frac{1}{4}$ " deep x 45 $\frac{3}{8}$ " high
126-15	15-drawer card catalog file 33 $\frac{1}{2}$ " wide x 17 $\frac{1}{4}$ " deep x 42 $\frac{3}{8}$ " high
126-12TB	card catalog table (for 9 or 12 tray card catalog case) 21" wide x 18" deep x 26" high
129-47	combination file and atlas case 69" wide x 24 $\frac{1}{4}$ " deep x 39" high
126-9	9-tray card catalog case 20" wide x 17 $\frac{1}{2}$ " deep x 13 $\frac{1}{8}$ " high
126-12	12-tray card catalog case 20" wide x 17 $\frac{1}{2}$ " deep x 17" high
129-15	card catalog file 15-tray card catalog file superimposed on two-drawer legal file 38 $\frac{1}{2}$ " wide x 26 $\frac{1}{2}$ " deep x 43 $\frac{3}{4}$ " high
123	cornice unit 1" high
124	5 drawer unit
124D*	10 drawer unit
125	reference shelf unit 2 $\frac{3}{8}$ " high
126	15 drawer unit 13" high
127	low base 16" high
128	high base 26" high available but not illustrated
126-2*	2-tray card catalog file 13 $\frac{3}{4}$ " wide x 17 $\frac{1}{2}$ " deep x 5 $\frac{1}{4}$ " high
126-4*	4-tray card catalog file 13 $\frac{3}{4}$ " wide x 17 $\frac{1}{2}$ " deep x 9 $\frac{1}{8}$ " high
126-6*	6-tray card catalog file 13 $\frac{3}{4}$ " wide x 17 $\frac{1}{2}$ " deep x 13 $\frac{1}{8}$ " high * Not illustrated

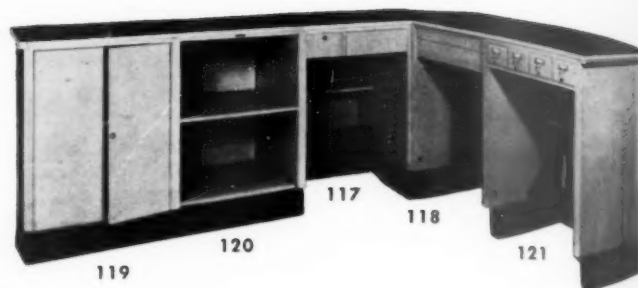


Charging desk units are 26" wide x 26" deep x 39" high overall, or 26" wide x 26" deep x 33" in sitting height unless otherwise specified. All units are equipped with an enclosed base, faced with dark green linoleum. The desk unit tops are covered with dark green linoleum and protected by a "Densi-Wood" banding at the front and a regular hardwood banding at the rear.

To assure maximum comfort for the library patrons while at the desk, the top at the front overhangs 2", and a 2" toe space is provided at the bottom.

On these pages are illustrated individual charging desk units with exact specifications, as well as front and rear views of typical assembled charging desks.

Note: All charging desk units are available with Formica tops.
To order, add suffix "P" to catalog number.



115

corner unit has a locked storage compartment with one shelf provided. Door is equipped with a pin tumbler cast bronze lock. There is no dead space in this charging desk unit.

116

finished ends are of a demountable type and are fastened with concealed bolts to the exposed sides of the last units in the assembly.

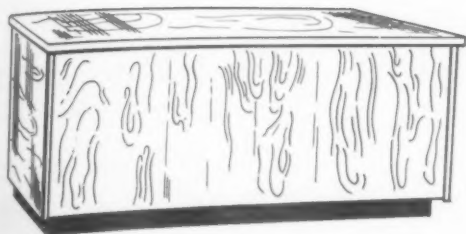


117



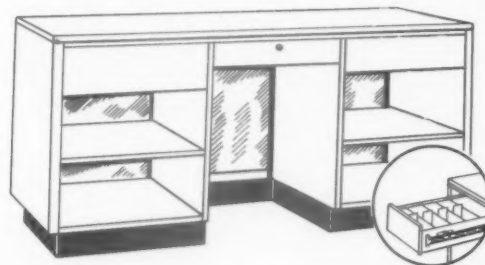
station unit is equipped with a locked cash drawer and a general use drawer for pencils, etc. An adjustable shelf 8" deep and a sloped rubber covered footrest are provided at the bottom.

charging desk units



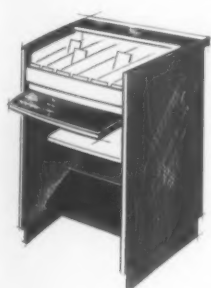
CD-72 seating height charging desk

This desk has ample storage for cards in seven trays. Four trays in the left hand drawer accommodate cards 5" high x 3" wide and three in the right hand drawer are for cards 3" high x 5" wide. Center drawer is 20" x 25" x 3" and is equipped with a lock.



Side compartments have center shelves, adjustable on one inch center.

Overall cabinet dimensions are: 33" high x 30" wide x 72" long.



118

station charging unit (well type) equipped with well compartment to hold six removable trays for cards 5" x 3". Removable top may be used as sliding shelf or rest. Adjustable shelf 8" deep and sloped rubber covered footrest are provided at bottom.



120

open shelving unit is similar to unit 119 but without doors. Two general storage shelves are easily installed on adjustable shelf pins.

120U: book return unit (not shown)

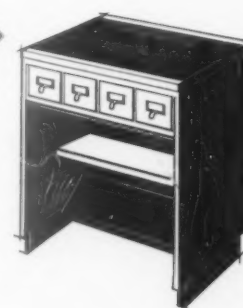
cabinet unit is equipped with two adjustable shelves set on shelf pins. A pair of flush doors is provided with satin bronze hardware. Pin tumbler lock is standard equipment.

119



card file unit is equipped with four file drawers for 3" x 5" cards. Drawers are identical to those used in regular card catalog file unit. One adjustable shelf and a sloped rubber covered footrest are provided at the bottom.

121



122

charge unit (drawer type) is equipped with a tray drawer mounted on extension slides. One adjustable shelf provided below the drawers.

122A: 5 trays 3" wide

122B: 3 trays 5" wide

845 7/8W

high swivel chair

845 7/8WL: upholstered back (not shown)





Library shelving is of the sectional and demountable type allowing for any size installation. Standard heights are:
 82" with six adjustable shelves
 60½" with four adjustable shelves
 42" high with two adjustable shelves

ends are 5-ply lumber core plywood 1 3/16" thick, flush design, front edges rounded.

intermediate uprights are of maple or birch strips at least ¾" thick or 5-ply lumber core panels of equal thickness with nosed edges.

shelves are maple or birch solid strips not over 4" wide and at least ¾" thick. Edges rounded, grooved underside for shelf pins and clip label holders.

Inside of ends and both sides of uprights have bored holes 1" apart vertically to receive supporting shelf pins—four to each shelf. All sections are fastened together with concealed bolts or lag screws at the top and bottom, securing uprights firmly to tops and bases. Top is not less than 2¼" high with flush fascia. Base is 4" high with rounded top. Top and base are framed up to a maple body. Bottom shelf extends to form a 2" toe space and is tilted 10° to increase amount of light on book titles. A 2" cork strip, recessed into shelf prevents books from slipping.



200 & 201

206 & 207



phono record shelving



222-R & 223-R

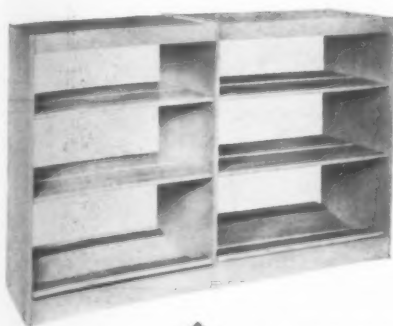
226-R & 227-R



library shelving

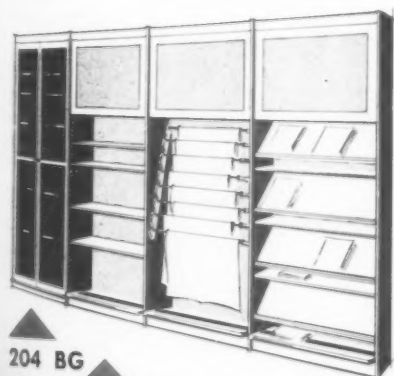


212 & 213 ▲



▲ D-212 & D-213

single faced shelving		double faced shelving	
cat. no.	description	cat. no.	description
82" high, 36" wide, six adjustable shelves			
200	initial unit 8" deep	D-200	initial unit 16" deep
201	additional unit 8" deep	D-201	additional unit 16" deep
202	initial unit 10" deep	D-202	initial unit 20" deep
203	additional unit 10" deep	D-203	additional unit 20" deep
204	initial unit 12" deep	D-204	initial unit 24" deep
205	additional unit 12" deep	D-205	additional unit 24" deep
60 1/2" high, 36" wide, four shelves			
206	initial unit 8" deep	D-206	initial unit 16" deep
207	additional unit 8" deep	D-207	additional unit 16" deep
208	initial unit 10" deep	D-208	initial unit 20" deep
209	additional unit 10" deep	D-209	additional unit 20" deep
210	initial unit 12" deep	D-210	initial unit 24" deep
211	additional unit 12" deep	D-211	additional unit 24" deep
42" high, 36" wide, two shelves			
212	initial unit 8" deep	D-212	initial unit 16" deep
213	additional unit 8" deep	D-213	additional unit 16" deep
214	initial unit 10" deep	D-214	initial unit 20" deep
215	additional unit 10" deep	D-215	additional unit 20" deep
216	initial unit 12" deep	D-216	initial unit 24" deep
217	additional unit 12" deep	D-217	additional unit 24" deep



204 BG ▲

205 BB ▲

205 NP ▲

205 MG ▲

cat. no.	description	cat. no.	description
82" high, four adjustable shelves with partitions			
222-R	initial unit	223-R	additional unit
60 1/2" high, two adjustable shelves with partitions			
224-R	initial unit	225-R	additional unit
42" high, one adjustable shelf with partitions			
226-R	initial unit	227-R	additional unit
204 BG	initial bookcase, glass doors	205 BG	additional unit
204 MG	initial magazine insert	205 MG	additional unit
204 BB	initial bulletin board insert	205 BB	additional unit
204 NP	initial newspaper insert	205 NP	additional unit



Library tables and table type carrells have been specifically designed for the heavy duty requirements of school and institutional libraries. Tops are of $1\frac{7}{16}$ " thick 5-ply lumber core plywood. Edges are banded with a hardwood nosing and well rounded over. Splayed legs are mortised and tenoned into an unobtrusive and inconspicuous apron 3" wide, which is set back 5" from the table edges. The leg is then fastened securely to the apron by a corner iron and hanger bolt. The style and function of the apronless table is achieved, while maintaining the solidarity and rigidity required in good furniture construction.

Round tables are similarly constructed except that the hardwood protective banding around the circumference is made up of eight segments approximately $\frac{3}{4}$ " wide by $1\frac{7}{16}$ " thick, tongued, grooved and glued to the top.

Note: All tables are available with Formica tops. To order, add suffix "P" to catalog number.



109

individual study table

36" long, 24" wide, 30" high
curb 4" high
returns 6" long



110

table type carrell

36" long, 24" wide, 30" high to top of table.
Same as individual study table except that book shelf assembly 20" high is fitted to the top. Free space under the shelf is 12".

library tables



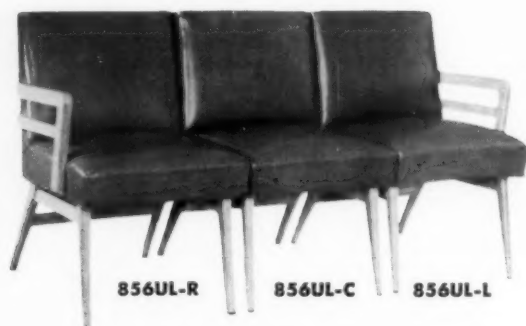
rectangular

cat. no.	description
101	60" x 36" top, 25" to 30" high, seats 4
101-A	36" x 24" top, 17" high
101-B	36" x 36" top, 17" high
102	60" x 36" linoleum top, 25" to 30" high, seats 4
103	90" x 36" top, 25" to 30" high, seats 6
104	90" x 36" linoleum top, 25" to 30" high, seats 6
105	120" x 42" top, 25" to 30" high, seats 8

round

cat. no.	description
106	48" diameter, 25" to 30" high, seats 4
106-A	42" diameter, 25" to 30" high, seats 4
106-B	36" diameter, 17" high

cat. no.	description
111	single slope top table 78" x 18" top, 26" to 33½" high
112	double slope top table 78" x 36" top, 26" to 33½" high
113	bench for slope top table 66" x 13" top, 15" high



856UL
lounge chair



All library chairs are manufactured of the best grade of northern birch or quartered oak, carefully selected for grain, color and free from imperfections. Steam bent parts are used extensively, wherever applicable. Seats are glued and triple dowelled in each joint, saddle scooped and sanded to make a form fitting seat.

library reading chairs with straight legs have been time tested for over a quarter of a century in libraries throughout the country. Distinguished for their clean lines and functional excellence, they feature a comfortable, contoured back rest for proper reading posture, smoothly rounded seat edges and flush-finished surfaces throughout. Each chair has rack space under the seat and is equipped with silent rubber cushioned glides.

library reading chairs with splayed legs are designed to conform with the general style theme of our new DONNELL LINE—splayed legs, bevelled seat and flaired back. The extensive use of dowelled joinery throughout the assembly, makes this a ruggedly built but delicately styled line.

Standard chair height—18 inches.
Also available in 14 and 16 inch heights.



844W



844WL



500



500L

library chairs



856UL-R



856UL-C

880UL



height of back	14½"
depth of seat	18¼"
width	21"



845W



845 ½ W



844 ½ W

cat. no.	description
844W	reading arm chair
844WL	reading arm chair —upholstered back
845W	reading side chair
845WL*	reading side chair —upholstered back
844 ½ W	swivel arm chair
844 ½ WL	swivel arm chair —upholstered back
845 ½ W	swivel side chair
845 ½ WL*	swivel side chair —upholstered back
500	reading side chair
500L	reading side chair —upholstered back
600*	reading arm chair
600L	reading arm chair —upholstered back
700*	side swivel chair
700L*	side swivel chair —upholstered back
800*	swivel arm chair
800L	swivel arm chair —upholstered back
900	tablet arm chair
900L*	tablet arm chair —upholstered back
561 ⅞ W	high swivel chair
561 ⅞ WL	high swivel chair —upholstered back

* Not illustrated



600L



800L

900





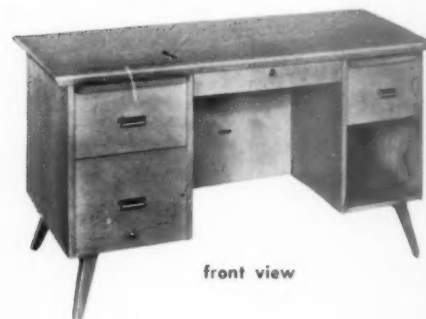
On the following pages are shown many of the varied items which are of basic importance to the functions of a modern library. Each unit is precision built by skilled craftsmen and features Standard's exclusive design, construction detail and modern manufacturing techniques. Plywood has been used extensively to eliminate the possibility of subsequent checking, splitting or other types of wood failure so inherent in solid lumber construction.

In the design of these miscellaneous units, special attention was given to the harmonious blending with our entire DONNELL LINE of library furniture. Durable, functional equipment is the result of graceful simplicity in design combined with maximum flexibility.



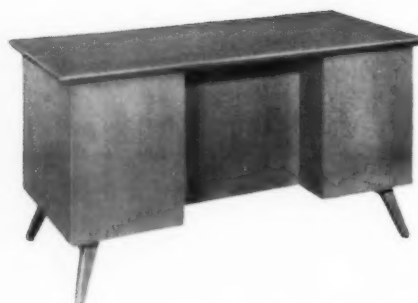
154S

A single pedestal desk—28" deep, 42" wide and 30" high. Top is $1\frac{3}{16}$ " thick. Pedestal is $15\frac{3}{4}$ " wide and $25\frac{3}{4}$ " deep, with one file drawer, a utility drawer and one pull out shelf. Knee space drawer is fitted with a pin tumbler lock.



154

front view



rear view

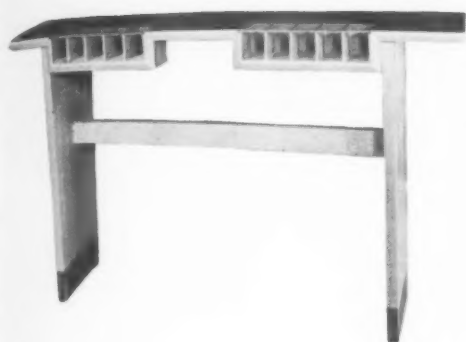
A double pedestal desk—28" deep, 58" wide and 30" high. The lower left pedestal drawer contains a rod and follower block, making the drawer suitable for filing. The two upper drawers are furnished with two trays each for filing both 5" x 3" and 3" x 5" cards.

154.1—Same as above with two drawers in each pedestal.

154T—Secretarial desk—same as above but made to accommodate a typewriter.

Also available—catalog number 155—conference desk, with same construction as 154. Top is 76" long x 39" wide. Not illustrated.

miscellaneous items



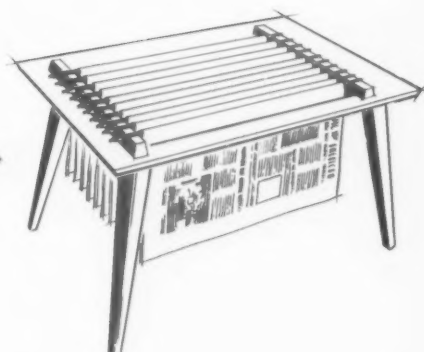
107

114



148

139

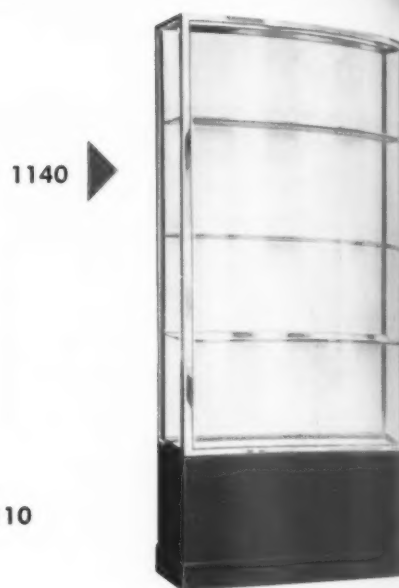


141

cat. no.	description
107	catalog reference table 72" long, 24" wide, 42" high
108*	catalog reference table 98" long, 24" wide, 42" high
114	double index table 96" long, 54" wide, 30" high Center bookrack 9" high x 9" deep on each face
114S*	single index table 96" long, 27" wide, 30" high
148	double face book display 28 $\frac{3}{4}$ " deep, 42" wide, 50 $\frac{1}{2}$ " high Removable bulletin board—11 $\frac{1}{2}$ " x 38"
138*	newspaper rack 36" wide, 14" deep, 60" high ten holders
139	table type newspaper rack 26" wide, 36" long, 30" high ten display rods
140*	small magazine rack 44 $\frac{1}{2}$ " high, 16 $\frac{3}{4}$ " deep, 37" wide 6 compartments with 22 magazine capacity
141	large magazine rack 58 $\frac{3}{4}$ " high, 22 $\frac{1}{8}$ " deep, 48" wide 8 compartments with 40 magazine capacity * Not illustrated



◀ 131



1140 ▶



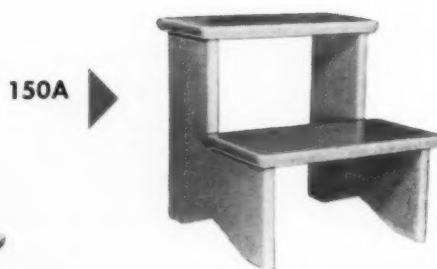
◀ 1110



◀ 146



147 ▶



150A ▶

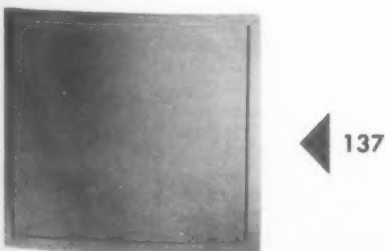
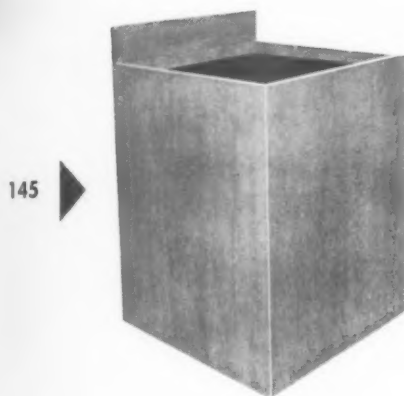
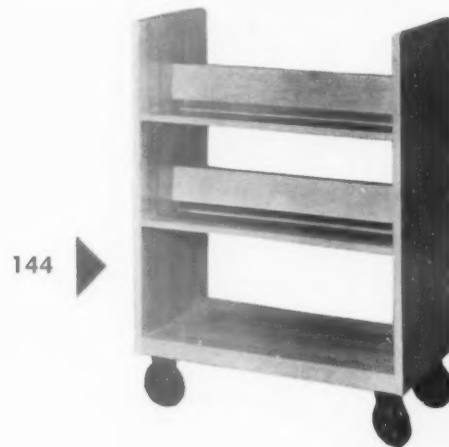
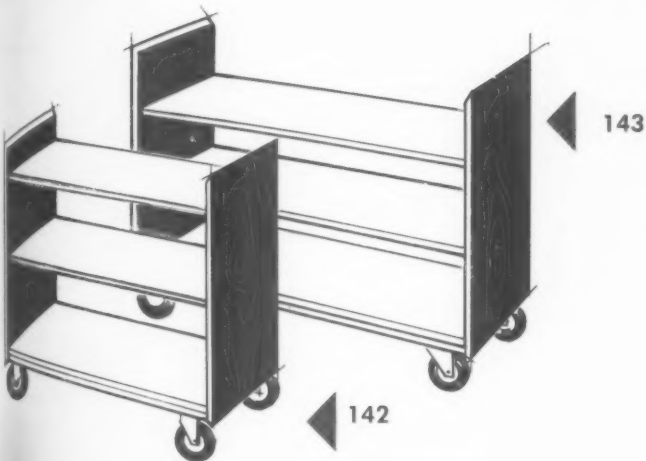


◀ 150

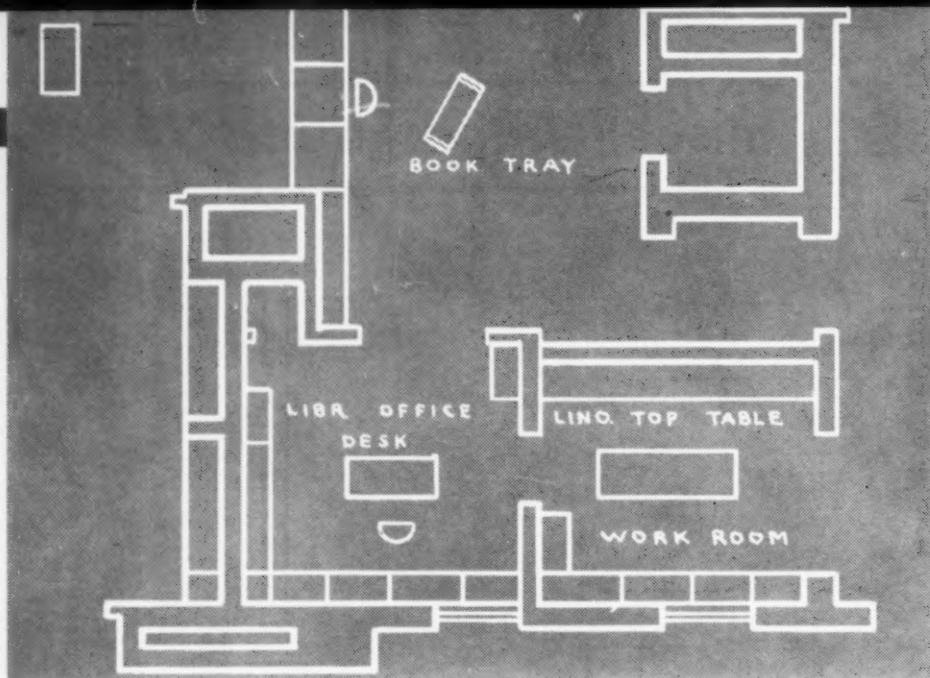


150B ▶

miscellaneous items



cat. no.	description
131	four drawer legal file
133*	three drawer legal file
136*	double face bulletin board 26½" wide, 67" high
137	wall bulletin board posting surface 21" x 26"
142	small booktruck 35¼" high, 30" wide, 14" deep
143	large booktruck 43" high, 39¾" wide, ends 14" deep Two shelves and bottom, two swivel and two stationary casters. Rubber bumpers optional.
144	booktruck with sloped shelves
145	depressable booktruck 22" square, 32" high at back, 28" high at front
146	dictionary stand 40¼" high at front, 42¼" high at back, 23½" wide, with adjustable shelf
147	atlas stand 44" high, 30" wide, 26¾" deep five pull-out shelves
149	portable book display rack 24" long, 8½" high, 8½" deep
150	low stool 12" deep, 12" wide, 12" high
150A	step stool 16" deep, 15" wide, 15½" high
150B	high stool 13" diam. seat, 18" and 26" high
151	revolving dictionary stand 21" wide, 14" deep, 5" high
153*	movable charging truck 30" long, 24" wide, 39" high, six trays for 5" x 3" cards, one drop leaf shelf on each side
1140	exhibit case, wall overall—78" high, 42" wide, 15¾" deep base—20½" high
1110	exhibit case, table overall—36" high, 60" wide, 28" deep base—29½" high
	* Not illustrated



a complete library planning service

The items described in this catalog have been designed to fit most standard requirements. Our special library planning service always welcomes new suggestions and will endeavor to meet the specific needs of librarians and architects.

**PLANS SUBMITTED
WITHOUT OBLIGATION**

typical installations

Top, right—Seaford High School, Seaford, L. I.

Bottom, right—Tresper Clark High School, E. Meadow, L. I.

Below—Marymount School, New York City



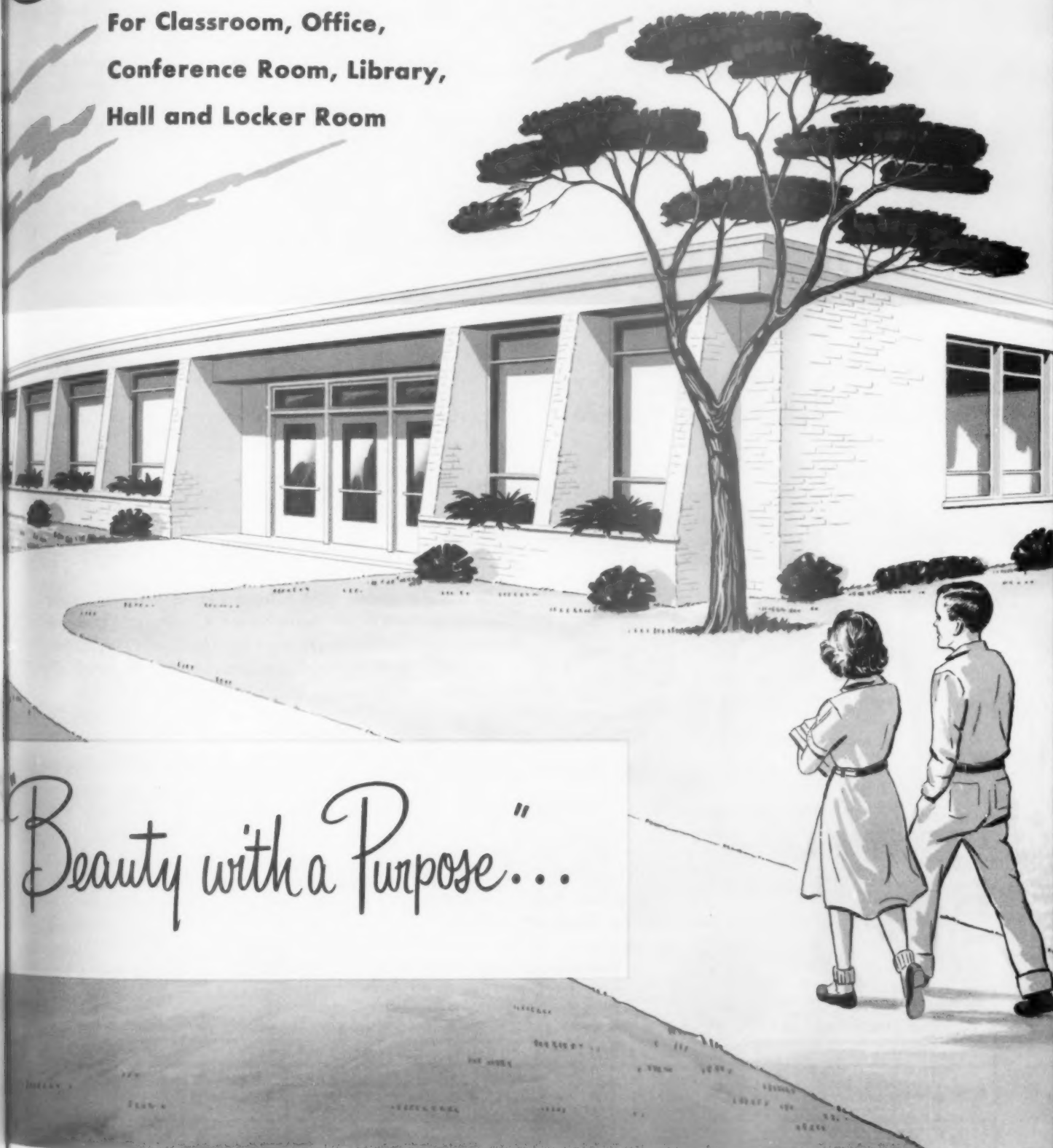
STANDARD WOOD PRODUCTS CORPORATION
Coliseum Tower, 10 Columbus Circle, New York 19, N.Y.



STEEL SCHOOL FURNITURE

for Elementary Schools, High Schools, Colleges and Universities

**For Classroom, Office,
Conference Room, Library,
Hall and Locker Room**



"Beauty with a Purpose..."

"Beauty with a Purpose"!..... **ASE Desks...**



TYPING AND SECRETARIAL DESKS



No. 6306 TYPEWRITER DESK

ASE Secretarial and Typing Desks are functionally designed and engineered for efficiency. Secretarial Desks are available with right or left-hand pedestals and in a wide range of sizes. ASE also offers a complete line of billing machine and calculating desks to meet your needs.



No. 6340 TYPEWRITER DESK



STEEL TABLES FOR EVERY SCHOOL NEED



No. 6260 WORK TABLE



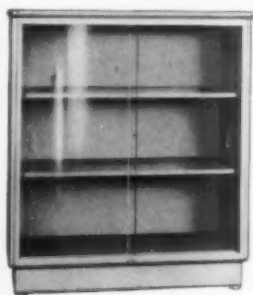
No. 6200 LIBRARY TABLE

Gracefully sturdy. ASE School Tables will retain their lustrous beauty for many years. Choice of Linoleum, Textolite and Formica tops that give years of service. Styledge Molding encircles entire table...is practically indestructible. Wide range of sizes for all school needs.

STANDARD FINISHES:

ASE Dawn Gray, Stylite Tan, Mist Green and Green.

No. 6043 BOOKCASE



A most useful companion piece to ASE Desks. Heights: 29", 42" and 52". Adjustable shelves. Glass or steel sliding doors are optional.



Bonderite coating assures a lustrous permanent finish. Anchors paint to metal, provides corrosion-resistant surface.



Style No.	Description	Center Drawer	Outside Dimensions W D H	Center Drawer W D H	Distance Between Legs
6200	96x36" Panel Leg Conference Table	1	96x36x29	17½x19½x2¼	60¼"
6260	60x30" Panel Leg Table	1	60x30x29	17½x19½x2¼	34¼"
6276	76x36" Panel Leg Conference Table	1	76x36x29	17½x19½x2¼	49¼"
6255	55x30" Panel Leg Table	1	55x30x29	17½x19½x2¼	34¼"
6245	45x30" Panel Leg Table	1	45x30x29	17½x19½x2¼	34¼"
6052	Bookcase, 3 Adj. Shelves, 12" deep, Finishing Ends, Steel Top, 38x13¾x52"				
6029	Bookcase, 1 Adj. Shelf, 12" deep, Finishing Ends, Linoleum Top, 39¼x15x29"				
6042	Bookcase, 2 Adj. Shelves, 12" deep, Finishing Ends, Steel Top, 38x13¾x42"				

ALL-STEEL EQUIPMENT INC., AURORA, ILLINOIS

Copyright 1957 by All-Steel Equipment Inc.

ables for School Offices and Classrooms



No. 6677 PRINCIPAL'S DESKS WITH No. 6741 BASE SET



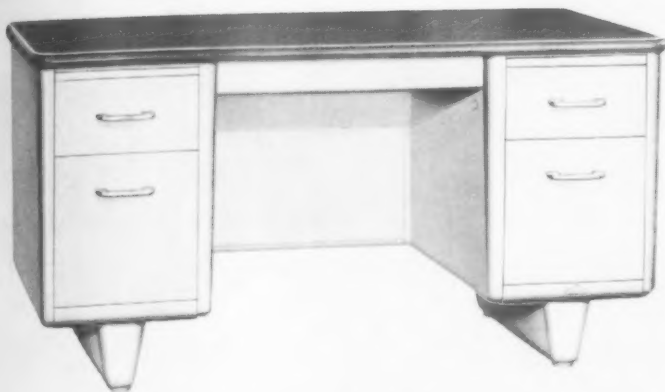
STEEL

PRINCIPAL'S DESKS

Modernly designed . . . offers the maximum in service and convertibility. Desk tops can be changed to meet tomorrow's needs. Drawers are also interchangeable. All ASE Desks are of comfortable 29" height. Choice of non-glare Linoleum, Textolite and Formica tops in harmonizing colors. No-mar Styledge Molding is set in beautiful anodized aluminum trim. Pop-out Work Shelves. Drawers are famed for their smooth, quiet operation.

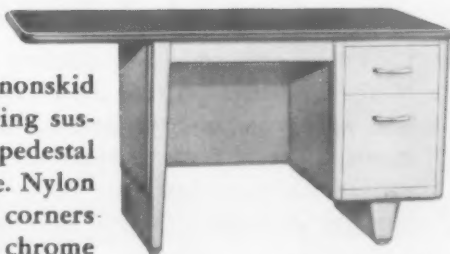


STEEL TEACHER'S DESKS



No. 6629 TEACHER'S DESK WITH No. 6741 BASE SET

Have tapered pedestals and island bases . . . enhances appearance and provides more foot room. Steel leveling feet equipped with nonskid rubber pads. Letter drawers have full 10-bearing suspension and are 26 $\frac{3}{4}$ " in depth. Separate pedestal locks. Like all ASE Desks, are fully convertible. Nylon glides on box and center drawers. All surfaces, corners and edges are furniture smooth. Beautiful satin chrome hardware of pleasing modern design.

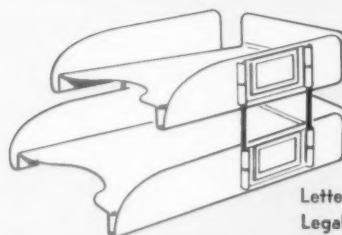


No. 6560 TEACHER'S DESK

STANDARD FINISHES:

ASE Dawn Gray, Stylite Tan, Mist Green and Green.

DESK LETTER TRAYS



Letter Size No. 4881
Legal Size No. 4882

LETTER AND LEGAL SIZE

Easy to stack one upon another. Stacking posts come with each tray.

**ASE QUALITY IS
CHEAPER BY THE YEAR
AS THE YEARS GO BY**

Style No.	Description	Box Dr.	Corresp. Drawer	Outside Dimensions W D H	Box Drawer Inside Clear W D H	Correspondence Dr. Inside Clear W D H	Center Drawer Inside Clear W D H	Knee Space Clear W H
6677	76x36" Dbl. Ped.	4 or 2 and 1 or 2		76x36x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	23 $\frac{1}{4}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	24 $\frac{3}{4}$ x24 $\frac{3}{4}$
6629	60x30" Dbl. Ped.	4 or 2 and 1 or 2		60x30x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	23 $\frac{1}{4}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	24 $\frac{3}{4}$ x24 $\frac{3}{4}$
6655	55x30" Dbl. Ped.	4 or 2 and 1 or 2		55x30x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	18 $\frac{3}{8}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	19 $\frac{7}{8}$ x24 $\frac{3}{4}$
6637	60x36" Dbl. Ped.	4 or 2 and 1 or 2		60x36x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	23 $\frac{1}{4}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	24 $\frac{3}{4}$ x24 $\frac{3}{4}$
6647	45x30" Sgle. Ped.	1 and 1		45x30x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	21 $\frac{3}{8}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	22 $\frac{3}{4}$ x24 $\frac{3}{4}$
6560	60x30" Sgle. Ped.	1 and 1		60x30x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	21 $\frac{3}{8}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	22 $\frac{3}{4}$ x24 $\frac{3}{4}$
6306	45x30" Typewriter	3 or 1 and 0 or 1		45x30x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	None	22 $\frac{3}{4}$ x25 $\frac{3}{8}$
6329	60x30" Typewriter	3 or 1 and 0 or 1		60x30x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	18 $\frac{3}{8}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	19 $\frac{7}{8}$ x24 $\frac{3}{4}$
6340	60x30" Dropfold Typewriter	3 or 1 and 0 or 1		60x30x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	19 $\frac{13}{16}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	24 $\frac{3}{4}$ x24 $\frac{3}{4}$
6344	45x30" Dropfold Typewriter	..	..	45x30x29	None	None	17 $\frac{7}{8}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	22 $\frac{3}{4}$ x24 $\frac{3}{4}$
6342	55x30" Dropfold Typewriter	3 or 1 and 0 or 1		55x30x29	12 $\frac{1}{8}$ x26 $\frac{3}{4}$ x5 $\frac{3}{8}$	12 $\frac{1}{8}$ x26 $\frac{1}{4}$ x12 $\frac{1}{8}$	14 $\frac{1}{16}$ x19 $\frac{1}{2}$ x2 $\frac{1}{4}$	19 $\frac{7}{8}$ x24 $\frac{3}{4}$

NOTE: Secretarial and single pedestal desks can be had in left or right-hand position. Select desired combination of drawers.

ALL-STEEL EQUIPMENT INC., AURORA, ILLINOIS

ASE STEEL OFFICE CHAIRS

Modern in design . . . beautiful in appearance. Offer every advantage that will add to working comfort and efficiency. Seats and backs have foam rubber built-up cushion. Swivel models have die-cast aluminum base with recessed scuff guards and hooded casters to protect chair and shoes. Wide choice of styles, finishes and modern upholstery fabrics.

FINISHES:

ASE Dawn Gray,
Mist Green,
Stylite Tan,
Green and Brown.



FABRICS:

Gros Point, Bedford Cord, Claremont, Elastic Naugahyde and in combinations.

No. 835
SYNCHRO-TILT



No. 825



No. 830



No. 810



No. 820

ASE STEEL POSTURE CHAIRS

Introduce new style and comfort in school seating. Modern tilt-back posture chair adjusts perfectly to the size, weight and body contours of the user. Five adjustments. Correct body support conserves energy, improves efficiency. Seats and backs are cushioned with molded foam rubber.

FINISHES:

ASE Dawn Gray, Stylite Tan, Mist Green, Green and Brown.

FABRICS:

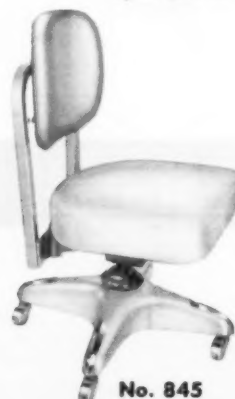
Gros Point, Bedford Cord, Claremont, Elastic Naugahyde and in combinations.



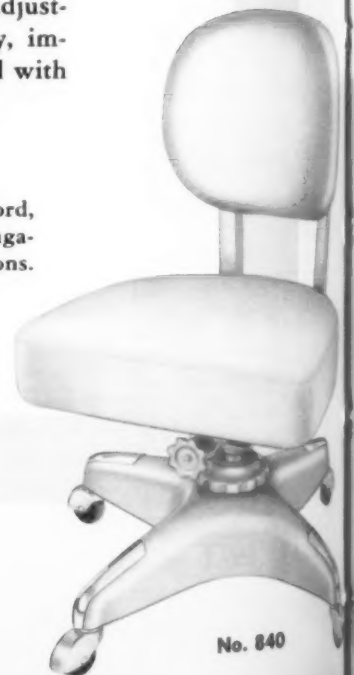
No. 545



No. 711



No. 845



No. 840

ASE STEEL FILES

Give you fast, efficient filing and safe storage for all school records. Drawers open easily, quietly and close with the same precision . . . are perfectly balanced at any position. There is a size and type for your every need.



ASE 5000 and 7000 Line Files are Bonderite treated . . . a positive protection against rust and corrosion.



No. 5211



No. 5401

THE 5000 LINE

Standard—Here is the ultimate in school filing cabinets . . . precision workmanship, rigid construction and mechanical perfection.

- ✓ Six post frame. Front posts are 7-formation channel type for maximum strength.
- ✓ Double gussets under each drawer cross shelf add strength and rigidity.
- ✓ Ten bearing suspension in each cradle assures long-life and smooth action.
- ✓ Full 26½" filing space in every drawer.

Finger-tip action follower block. Easy to adjust . . . locks automatically when latch is released.

Beautiful modern satin chrome hardware.

Permanent baked enamel finish is applied over Bonderite coating.

Completely enclosed case. Side panels wrap around front and rear posts.

STANDARD FINISHES: ASE Dawn Gray, Stylite Tan, Mist Green and Green on 5000 and 7000 Line Files. Dawn Gray only on 1400 Line.

THE 7000 LINE

Commercial—This fine series of ASE Filing Cabinets embodies many of the outstanding features of the 5000 line.

THE 1400 LINE

Non-Suspension—Provides service and performance at a nominal price. Ideal when confronted by budget limitations.

ASE COUNTER FILES

Save space, save steps, provide easily accessible storage with ASE Counter Equipment.



COMPLETE SELECTION OF 5-4-3-2 DRAWER FILES. WRITE FOR ILLUSTRATED CATALOG.

5000 Line Standard Grade		7000 Line Commercial Grade		1400 Line Non-Suspension Grade		Description	Accom. Std. Form Size	Outside Dimensions W H D*
No Lock	Lock	No Lock	Lock	No Lock	Lock			
5401	5401-L	7401	7401-L	1441	1441-L	4 Dr. Letter File	8½x11"	14½x52x28
5402	5402-L	7402	7402-L	1442	1442-L	4 Dr. Legal File	8½x13"	18x52x28
5451	5451-L	.....	.....	1443	1443-L	3 Dr. Ltr. 2 Dr. Dbl. Compt. 3x5" Cards	8½x11" & 3x5"	14½x52x28
5461	5461-L	.....	.....	1443	1443-L	3 Dr. Ltr. 2 Dr. Dbl. Compt. 4x6" Cards	8½x11" & 4x6"	14½x52x28
5471	5471-L	.....	.....	.....	.....	3 Dr. Lgl. 2 Dr. 3- Compt. 3x5" Cards	8½x13" & 3x5"	18x52x28
5211	5211-L	7211	7211-L	1421	1421-L	2 Dr. Letter File	8½x11"	14½x29x28
5212	5212-L	7212	7212-L	1422	1422-L	2 Dr. Legal File	8½x13"	18x29x28
5301	5301-L	7301	7301-L	1431	1431-L	3 Dr. Letter File	8½x11"	14½x42x28
5302	5302-L	7302	7302-L	1432	1432-L	3 Dr. Legal File	8½x13"	18x42x28
5501	5501-L	7501	7501-L	.....	.....	5 Dr. Letter File	8½x11"	14½x60x28
5502	5502-L	7502	7502-L	.....	.....	5 Dr. Legal File	8½x13"	18x60x28

NOTE: All 1400 Line Files are 25" deep . . . 2 drawer files are 30½" high.

ALL-STEEL EQUIPMENT INC., AURORA, ILLINOIS



SCHOOL LOCKERS

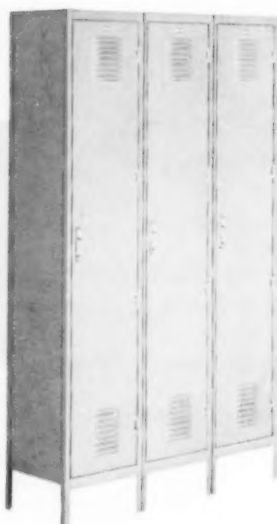
Sturdily built for years of service. Can be used practically anywhere in the school . . . halls, classrooms and locker rooms. Attractive in appearance. Concealed hinges. Prelocking latch. Adequate louvers for ventilation. ASE Engineers will gladly help you with estimates, layouts and installation advice. Write for details.

STANDARD FINISHES:

ASE Dawn Gray, Sand Tan, Fern Green and Green.



**SINGLE
TIER
LOCKERS**



**DOUBLE
TIER
LOCKERS**



**BOX
LOCKERS**



Single-Tier Lockers have hat shelf, 3 single-prong ball point side hooks and 1 double-prong ball point ceiling hook. Lockers 18" or more in depth have 3 single-prong ball point hooks, 1 coat rod.

Double-Tier Lockers have 3 single-prong ball point coat hooks. No hat shelf or ceiling hook. Flat key locks or padlock attachment.

Box Lockers are ideal for safe keeping of small objects. Available in tiers 5 or 6 lockers high.

Handle lifts easily with one finger. Prelocking allows locking while door is open and locks when door is closed.

Hinges are concealed, giving a finished appearance. No projecting surface to catch clothing.

Frame $\frac{7}{8} \times \frac{7}{8} \times \frac{1}{8}$ " angle up-rights securely riveted to 16 gauge cross frame members.

Latch Bar provides quiet closing of locker door. Rubber bumpers are placed at points of contact for greater silence.

STANDARD SIZES					
SINGLE-TIER LOCKERS			DOUBLE-TIER LOCKERS		
Wide	Deep	High	Wide	Deep	High
9	12	60	12	12	30
9	15	60	12	12	36
12	12	60	12	15	36
12	15	60	12	18	36
12	18	60	15	15	36
15	15	60	BOX LOCKERS		
15	18	60			
12	12	72	12	12	12
12	15	72	12	15	12
12	18	72	12	18	12
15	15	72	15	15	12
15	18	72	9	12	20
18	18	72	9	12	24
18	21	72	12	12	24



WALL-ROBES

Especially designed for elementary classrooms. Offer the same high quality found in ASE Lockers. Wall-Robes provide built-in efficiency. Available in 48, 54 and 60" sizes. Individual lock on each unit, no multiple controls. Write for complete literature and engineering help in layout and plans for your new school.

ALL-STEEL EQUIPMENT INC., AURORA, ILLINOIS

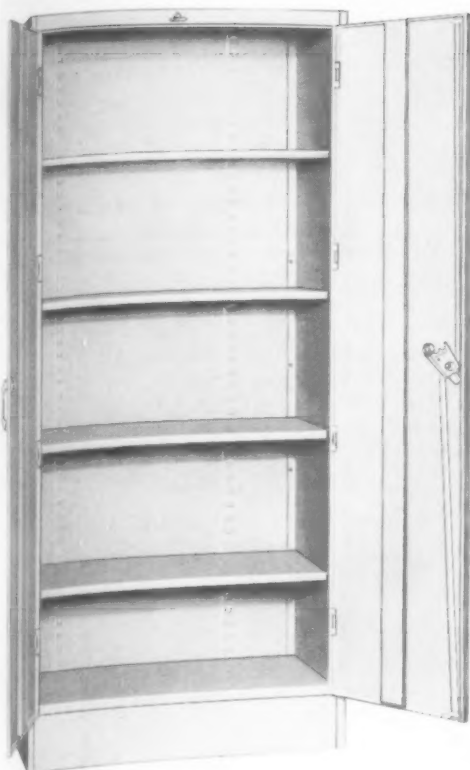


SCHOOL CABINETS

Provide safe, orderly storage of books, supplies, clothing. Protects them from dust and dirt. Built of heavy gauge furniture steel, strongly reinforced for years of service. Shelves are adjustable on $1\frac{1}{2}$ " centers. Easily changed without use of tools. Wardrobe and Combination Cabinets have hat shelf and coat rod. Beautiful hardware. Concealed hinges.

STANDARD FINISHES:

ASE Dawn Gray, Stylite Tan, Mist Green and Green. Other plain finishes at extra cost.



STORAGE CABINET



COUNTER-HIGH CABINET



COMBINATION CABINET



WARDROBE CABINET



UTILITY RACK

Excellent for all storage purposes. May be used singly or bolted together in rows of any desired length.

STANDARD SIZES STORAGE CABINETS

Cat. No.	Description	Equipment	Width	Depth	Height
3487	Storage	4 Shelves	36	18	78
3447	Storage	4 Shelves	36	24	78
2487	Storage	4 Shelves	24	18	78
2447	Storage	4 Shelves	24	24	78
3456	Storage	4 Shelves	36	18	66
2456	Storage	4 Shelves	24	15	66
2486	Storage	4 Shelves	24	18	66
1886	Storage	4 Shelves	18	18	66
3489	Wardrobe	Hat Shelf and Rod	36	18	78
3449	Wardrobe	Hat Shelf and Rod	36	24	78
2409	Wardrobe	Hat Shelf and Rod	24	18	78
2449	Wardrobe	Hat Shelf and Rod	24	24	78
2419	Wardrobe	Hat Shelf and Rod	24	18	66
1889	Wardrobe	Hat Shelf and Rod	18	18	66
3485	Combination	Hat Shelf, Coat Rod, 4 Shelves	36	18	78
3445	Combination	Hat Shelf, Coat Rod, 4 Shelves	36	24	78
3484	Counter-High	3 Shelves	36	18	42
3444	Counter-High	3 Shelves	36	24	42
701	Utility Rack	4 Shelves	36	12	78
703	Utility Rack	4 Shelves	36	18	78

ALL-STEEL EQUIPMENT INC., AURORA, ILLINOIS



BLUEPRINT PLAN FILE CABINETS

Provide safe, orderly storage for plans, master drawings, tracings and large flat sheets. Drawers open easily . . . no binding or drag. Have protective hood and hinged compressor. Dividers can easily be installed in drawers. Top and bottom units required for each stack. Available with locks, factory installed only.

Standard Finishes: Dawn Gray, Stylite Tan, Mist Green, and Green.

Cat. No. No Lock	Description	Sheet Size	Outside Dimensions			Inside Dimensions of Drawers		
			W	D	H	W	D	H
1351	5 Drawers	24x18"	29½"	21½"	16¼"	25½"	19½"	2"
1352	5 Drawers	36x24"	41½"	28"	16¼"	37½"	25½"	2"
1354	5 Drawers	42x30"	47½"	33½"	16¼"	43½"	31½"	2"
1355	5 Drawers	48x36"	53½"	40½"	16¼"	49½"	38"	2"
1331	3 Drawers	24x18"	29½"	21½"	16¼"	25½"	19½"	3½"
1332	3 Drawers	36x24"	41½"	28"	16¼"	37½"	25½"	3½"
1334	3 Drawers	42x30"	47½"	33½"	16¼"	43½"	31½"	3½"
1335	3 Drawers	48x36"	53½"	40½"	16¼"	49½"	38"	3½"



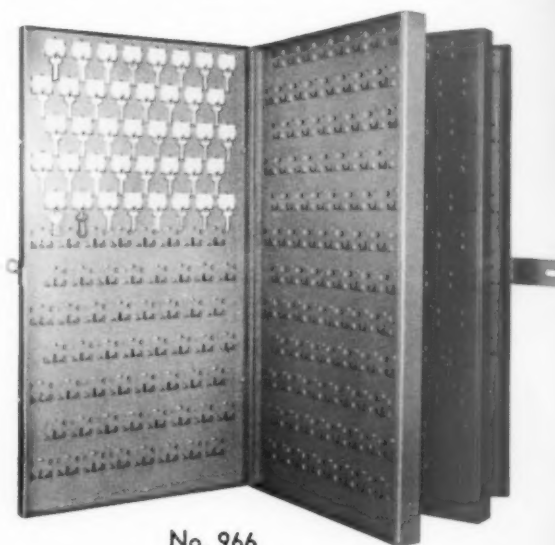
KEY CABINETS

Prevents keys from being lost or stolen.
Simplifies locker administration.

STANDARD FINISHES:

ASE Dawn Gray or Green.

Catalog Number	Size	Key Capacity	Number Leaves
961	18¼x2¼x34¼"	96	1
962	18¼x2¼x34¼"	192	2
963	18¼x4 x34¼"	288	3
964	18¼x4 x34¼"	384	4
965	18¼x5¼x34¼"	480	5
966	18¼x5¼x34¼"	576	6



No. 966



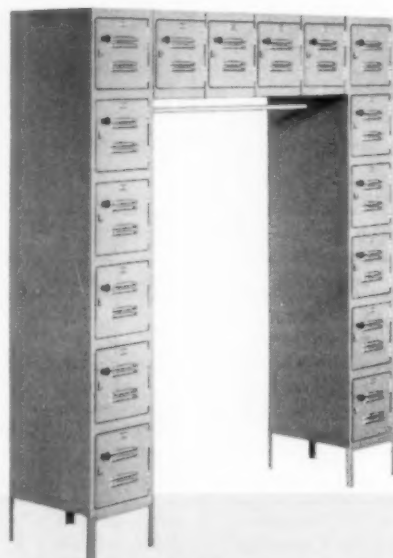
UNIT-ROBS

Solves multiple storage locker problems with a minimum investment. Sixteen box lockers . . . 45" coat rod. Over-all dimensions are 69" wide, 18" deep, 78" high (including 6" legs). Choice of flat key locks or padlock attachments.

STANDARD FINISHES:

ASE Dawn Gray and Green.

No. 9991



ASE DEALERS ARE LOCATED THROUGHOUT THE COUNTRY

Contact the ASE dealer in your area or write direct to

ALL-STEEL EQUIPMENT INC. AURORA, ILLINOIS



"ALL-PURPOSE" STAND

Use as a typewriter table, "T.V." stand or work bench. Perfect for students. Opens up to 39 1/4" x 17". Center drawer for supplies and shelf for books. Rolls smoothly on quality casters. Heavy gauge steel. Olive Green or Cole Gray.

No. 759.....\$11.95
Shpg. Wt. 25 lbs.



HEAVYWEIGHT "All-Purpose" STAND

Protection for costly office machines. Cannot tip or tilt. Casters retractable at flip of a lever.

Stand will not move when lever is set. Shelf for personal items. Opens to 48 1/2" x 25" x 26" high. Mist Green, Olive Green, Desert Sand or Cole Gray.

No. 779
\$46.75
Shpg. Wt. 66 lbs.

COLE'S TELEPHONE TABLES→

Complete with secret vault and full suspension letter file both protected by an outer door under lock and key. Linoleum top trimmed with aluminum. Desk high. Mist Green, Olive Green, Desert Sand or Cole Gray.

No. 200.....\$59.95
Shpg. Wt. 79 lbs.

Same as above but without file or vault

No. 10X.....\$49.95
Shpg. Wt. 63 lbs.

Grained Walnut, Mahogany, Knotty Pine \$12.50 add'l.

Prices slightly higher in Texas, Colorado, and West of the Rockies



Perfect Gift for Students



- For the Student
- For the Salesman
- Ideal for Mom or Dad
- For the Plant Foreman

Complete "Office Set" for \$34.50!

STEEL DESK.....A beautifully designed Cole Steel Desk with two drawers for stationery and supplies. Gray baked enamel finish.

DESK CHAIR.....A Matching Cole Steel Desk Chair... folds away out of sight. Comfortably upholstered seat, lifetime fabric.

DESK LAMP.....A dramatic desk lamp, approved by Underwriters Laboratory with specially designed diffuser shade.

DICTIONARY.....Edited for home, school and office. Complete, 574 pages.

ENCYCLOPEDIA.. 12,500 informative articles, 1,000,000 words, 576 pages.

YOU GET ALL THE ABOVE for ONLY.....\$34.50

Shpg. Wt. 58 lbs.

Order No. 275-BK

Read what these reporters say...



QUENTIN REYNOLDS

"I've tried them all, American and foreign. It's a Cole Portable for me... it's lighter, faster, cleaner"



KENNETH BANGHART

"Split seconds are important. For speed and accuracy I depend on my Cole Portable."



The '1959' COLE PORTABLE

These experts have chosen Cole above all other typewriters only because Cole has all the features they demand in a portable. Lightweight, streamlined and rugged, will stand up after years of hard use. IDEAL FOR STUDENTS. Gives precision office performance for the entire family... no wonder everybody from Alaska to Zanzibar is raving about the 1959 Cole Portable. Dollar-for-dollar the greatest value in typewriter history.

YOUR CHOICE OF 3 TYPE STYLES...Pica...Elite...Imperial

\$94.50
Plus Tax

No. 275-TYBO

Cole Gray, Mist Green or Desert Sand with matching carrying case.

FREE Order a Cole Portable and receive absolutely free the complete "Office Set" shown on top right of page.

COLE STEEL EQUIPMENT CO., INC. • NEW YORK 17, N. Y. A1

Cole...feature for feature your greatest value!

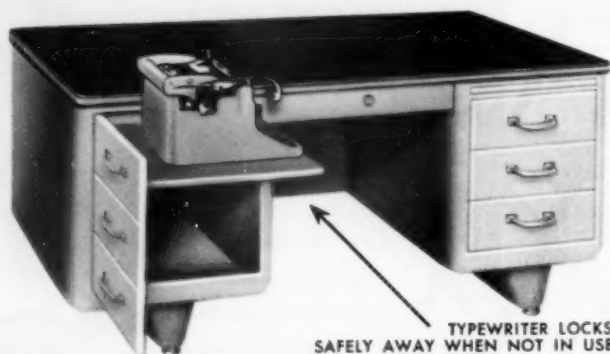


1. "Whisper-touch"
2. End-of-page indicator
3. Carriage lock
4. Card and label holder
5. Quick set margins
6. Non-glare keyboard
7. Erasure table
8. Speed keys
9. Paper support
10. Three space settings
11. Stencil cutter
12. 2-Color ribbon

Write for name of nearest dealer • Send for our New 72 pg. Catalog.

Cole's LINE OF MODERN STEEL DESKS

Improves efficiency by creating a pleasant office atmosphere. Smartly styled to meet the most discriminating taste. Constructed of heavy furniture steel. Beautifully covered with top grade linoleum trimmed with aluminum.



The "Secretarial"

Equipped with Cole's sound-insulated retractable platform. Designed for faster, smoother, quieter typing. Linoleum top with aluminum edging. Typewriter pedestal on left (as illus.) or right.

No. 1745 ST — 3 box drawers with reference slide (56" x 31").....\$195.00
Shpg. Wt. 298 lbs.

No. 1746 ST — 3 box drawers with reference slide (61" x 31").....\$205.00
Shpg. Wt. 312 lbs.

Above with 1 letter drawer and 1 box drawer instead of 3 box drawers, add 2D to number.

AUTOMATIC LOCKING DEVICE...

All desks equipped with center drawer lock which automatically locks all drawers

STEEL DESK TOPS — LINOLEUM COVERED...

In matching or contrasting shades

DECORATOR COLORS...

Mist Green, Olive Green, Desert Sand or Cole Gray baked enamel finish



The "Executive"

Smart in appearance, beautifully styled. Pays for itself by increasing work output. Drawers ride smoothly and easily on nylon glides, can't warp. Fire resistant steel.

ADJUSTABLE
"FLOOR LEVELING" GLIDES

LOCK ON CENTER DRAWER LOCKS ALL DRAWERS

No. 1700 ST — 1 letter drawer, 4 box drawers, 1 center drawer (56" x 25 1/4").....\$165.00

No. 1701 ST — 2 letter drawers, 2 box drawers, 1 center drawer (56" x 25 1/4").....165.00
Shpg. Wt. 246 lbs.

No. 1702 ST — 1 letter drawer, 4 box drawers, 1 center drawer (61" x 31").....\$175.00

No. 1703 ST — 2 letter drawers, 2 box drawers, 1 center drawer (61" x 31").....175.00
Shpg. Wt. 311 lbs.

"CONFERENCE" DESK →

Roomy overhang, seats 8 to 10 people. 2 letter drawers, 2 box drawers and a center drawer, 70" w. x 34" d. Adjustable height.

No. 1704 ST \$215.00



Shpg. Wt. 293 lbs.



SPECIFY PREFERENCE,
LEFT OR RIGHT
DRAWER PEDESTAL

← MATCHING CREDENZA

Contains 2 storage cabinets with sliding tambour doors that roll out of sight. Lock and key. 65" w, 29" h, 19 1/4" d.

No. 3712\$172.50

Wt. 183 lbs.

← "Jr. Executive"

For use where space is at a premium. Drawer pedestal with arm rest on left (as illustrated) or right. Lock on center drawer automatically locks all drawers. 43" x 25".

No. 1707 ST

1 letter, 1 box, 1 center drawer.....\$149.50

No. 1708 ST

3 box drawers, 1 center drawer.....\$149.50

Shpg. Wt. 188 lbs.



MATCHING TABLES

Use alongside Cole's Modern Desks. Steel top, linoleum covered, aluminum trim. 29" high.

No.	W.	D.	Price	Wt.
1714.....	40"	19 1/4"	\$61.00	68 lbs.
1715.....	40"	26 3/4"	79.50	96 lbs.
1716.....	58"	26 3/4"	99.00	99 lbs.
1717.....	63 1/2"	26 3/4"	105.00	106 lbs.
1734.....	70"	34"	127.00	120 lbs.

← The "President"

Ample overhang enables conferences of from eight to ten people. Contains two full suspension letter file drawers with compressors, two box drawers and a center drawer. Automatic lock for all drawers. Size of top: 78" x 40".

No. 1744 LT\$280.00

Shpg. Wt. 365 lbs.

"DRAFTSMAN" Chair

Used in factories to increase production. Ideal for telephone operators. Designed for comfort. Soft rubber seat. Height and seat adjustment. Self-aligning back rest. Brown, Green, Blue, Gray only.

No.	Seat Height	Price	Wt.
2018	from 22" to 30"	\$29.95	29 lbs.
2019	from 26" to 34"	32.50	32 lbs.



"STENO" Chair

New, colorful chairs at an exceptionally low cost. Corrects improper posture, reduces office fatigue. Fingertip controls. Bonded rubber seat. Adjustable seat height, smooth rolling casters. 16½" x 13½". Brown, Green, Wine or Gray only.

No. 2815	\$23.50
----------	---------

Shpg. Wt. 24 lbs.

"SIDE" Chair

Give your office a "New Look". Brushed aluminum frame. "No-sag" spring seat. DuPont's "Fabrilite" upholstery. *12 exciting colors. Seat: 16½" x 15½".

No. 2600	\$44.50
----------	---------

Shpg. Wt. 19 lbs.

As above with steel instead of aluminum frame	\$29.95
---	---------

Shpg. Wt. 24 lbs.



"SALESMAN'S" Chair

Exciting and colorful. Matching steel frames harmonize with DuPont's "Fabrilite". *12 exciting colors. "No-sag" springs. Seat size: 19" x 17".

No. 2626	\$49.00
----------	---------

Shpg. Wt. 32 lbs.

As above with aluminum instead of steel frame	\$62.50
---	---------

Shpg. Wt. 25 lbs.

Cole's STEEL FOLDING CHAIRS

Used in waiting rooms, libraries, funeral homes, gymnasiums, cafeterias and church auditoriums. Green, Gray or Beige.



Ⓐ Heavy duty folding chair. Cross brace support for extra protection. Rubber leg protectors. No. 2821 \$4.95 ea. (4 to carton) Less than 4, add \$1.00 each Shpg. Wt. 43 lbs.

Ⓑ Steel folding chair. Rubber protectors will not slip or mar floors. Seat size: 16" x 16". No. 2820 \$6.95 ea. (4 to carton) Less than 4, add \$1.00 each Shpg. Wt. 60 lbs.

Ⓒ Auditorium chair with the "Tablet-Arm". Seat to match. Fold flat and nest for easy storage. Rubber protectors prevent slipping. No. 2824 \$13.95 ea. (2 to carton) Less than 2, add \$1.00 each. Shpg. Wt. 80 lbs.

Same as above but without "Tablet-Arm" No. 2827 \$8.95 ea. (4 to carton) Less than 4, add \$1.00 each. Wt. 60 lbs.

12* EXCITING COLORS

Unless specified otherwise, Cole chairs are available in DuPont's "Fabrilite" in Granite Gray, Oak Leaf Green... Brown, Sandhill Tan... Yellow, Terra Cotta, Wine... Sapphire Blue, Coral... Apple Green, Dark Green... Russet.

Steel Chair Frames... Cole steel chair frames in Mist Green, Olive Green, Desert Sand, Cole Gray or aluminum finish.

Prices slightly higher in Texas, Colorado, and West of the Rockies



Cole's MODERN OFFICE CHAIRS

Cole chairs are scientifically designed for the utmost in comfort. Will correct improper posture, eliminating office fatigue. "No-sag" spring seats covered with DuPont's "Fabrilite". Will not stain, crack or peel.

"SECRETARY" CHAIR →

Adjusts 5 ways. All nylon bearings. Rubber seat. Brushed aluminum frame. DuPont's "Fabrilite" in *12 exciting colors. Seat: 16¾" x 14".

No. 2810	\$35.50
----------	---------

Shpg. Wt. 33 lbs.

Same as above but with steel band back support instead of aluminum frame.

No. 2810RS	\$29.95
------------	---------

Shpg. Wt. 35 lbs.



← Junior "EXECUTIVE" Chair

Improves office appearance. "No-sag" springs. Fingertip controls, adjustable tension and height. Rugged steel frame. Ball-bearing casters. Seat size: 19½" x 17½". *12 exciting colors.

No. 2825	\$59.50
----------	---------

Shpg. Wt. 45 lbs.

"EXECUTIVE" Chair

Same as above but brushed aluminum frame instead of steel frame.

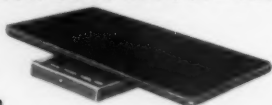
No. 2550	\$89.95
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Shpg. Wt. 42 lbs.

IMPERIAL MODULAR STEEL DESKS

Illustrated on this page are modular units to meet every possible office need. Designed for easy changing as your requirements change. No special tools necessary. Desk tops fit snugly over pedestal units. Storage cases are equipped with tambour doors that roll out of sight upon opening. Adjustable shelves. Smooth gliding letter drawers with suspension arms. Heavy steel.

MAKE YOUR OWN LAYOUT—SUIT YOUR OWN NEEDS



DESK TOP

with center drawer plus lock and key

No.	Length	Depth	Price
35TDS	35"	26 1/2"	\$45.00
41TD	41"	26 1/2"	51.00
59TD	59"	26 1/2"	59.00
63TD	63 1/2"	26 1/2"	64.25
70TD	70"	34"	89.00

DESK TOP without drawer

No.	Length	Depth	Price
35T	35"	26 1/2"	\$31.00
41T	41"	26 1/2"	34.00
59T	59"	26 1/2"	42.00
63T	63 1/2"	26 1/2"	46.00
70T	70"	34"	69.50

CONNECTOR

DESK TOP for typewriter use

No.	Length	Depth	Price
35-TS	35"	19 1/4"	\$29.95
41-TS	41"	19 1/4"	31.00
59-TS	59"	19 1/4"	37.00
63-TS	63 1/2"	19 1/4"	43.50
94-TS	94"	19 1/4"	99.75

Connector for above Desk Tops.....3.00



OPEN PEDESTAL

No.	Deep	Height	Price
A	17"	Typewriter Desk	\$12.50
B	17"	Regular Desk	12.50
C	24"	Typewriter Desk	13.50
D	24"	Regular Desk	13.50

CLOSED PEDESTAL

No.	Deep	Height	Price
E	17"	Typewriter Desk	17.50
F	17"	Regular Desk	18.50
G	24"	Typewriter Desk	19.50
H	24"	Regular Desk	24.50



3 box drawers, arm rest and center drawer plus a sliding tambour door storage cabinet under lock and key. Desk top (left) 59" w, 29" h, 26 1/2" d. Desk top (right) 65" w, 29" h, 19 1/4" d.

No. 3625.....\$269.00
Shpg. Wt. 378 lbs.



THREE BOX DRAWERS

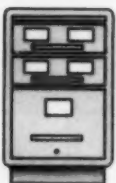
24" deep unit features a sliding shelf and stationery tray. 16" wide.

No.	High	Deep	Price
3300	28"	24"	\$87.00
As above with lock			97.00
3301	26"	17"	67.75
As above with lock			77.75
3301b	28"	17"	75.00
As above with lock			85.00



2 suspension letter drawers plus sliding tambour door storage cabinet, two adjustable compartments under lock and key. Desk top (left) 59" w, 29" h, 26 1/2" d. Desk top (right) 41" w, 26 1/2" h, 19 1/4" d.

No. 3626
\$189.50
Shpg. Wt. 247 lbs.



CARD AND LETTER FILE

plus sliding shelf. 16" wide.

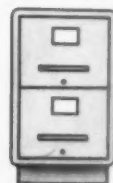
No.	High	Deep	Price
3321	28"	24"	\$79.75
As above with lock			89.75
3321-17	28"	17"	72.50
As above with lock			82.50



STORAGE CABINET

16" wide.

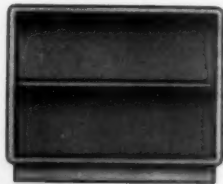
No.	High	Deep	Price
3200	28"	24"	\$43.50
3201	26"	17"	37.50
3201b	28"	17"	42.50



TWO DRAWER FILE

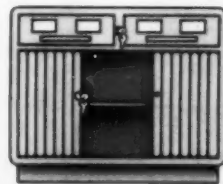
16" wide.

No.	High	Deep	Price
3202	28"	24"	\$64.00
As above with lock			74.00
3202-17	28"	17"	57.00
As above with lock			67.00



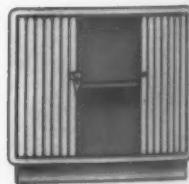
SHELF UNIT 30 1/2" wide
Two adjustable compartments. Beautiful rounded corners.

No.	High	Deep	Price
3208	28"	17"	\$49.00
3207	26"	17"	42.50



BOX DRAWER & STORAGE CABINET
Tambour doors with lock and key. Box drawers for 3x5 or 4x6 cards and storage cabinet. 30 1/2" wide.

No.	High	Deep	Price
3210	28"	17"	\$78.00



STORAGE CABINET 30 1/2" wide.
Featuring sliding tambour doors. Adjustable compartments.

No.	High	Deep	Price
3212	28"	17"	\$64.00
3211	26"	17"	57.50

DECORATOR COLORS — All above units available in Mist Green, Cole Gray or Desert Sand.
STEEL DESK TOPS — LINOLEUM COVERED Available in matching or contrasting shades.



Cole's "SALESMAN'S" DESK

Designed for use where space is at a premium. Has 4 roomy drawers, an arm rest and a private compartment under lock and key. Perfect for receptionists. Ideal for students. Improves their homework. Desk high, 40" wide, 18" deep. Constructed of heavy gauge furniture steel. Will last a lifetime. Beautifully finished in Cole Gray or Olive Green baked enamel.

No. 756.....\$44.95
Shpg. Wt. 81 lbs.



WRITE FOR FREE COLE CATALOG

Yours for the asking. 72 pages beautifully illustrated in full color. Features complete Cole selection of Modern Office Equipment and Furniture including office cabinets, desks, chairs, modular units, shelving units, storage cabinets, office partitions, safes, etc.

COLE'S

Custom Made

STEEL DESKS and CREDENZAS

Save valuable office space.
Custom made for your particular need.
Desks designed to increase work
output. Select the unit
best suited for the job.

NEW COLORS . . .

Mist Green, Olive Green, Desert Sand
or Cole Gray baked enamel finish
at no extra cost.

STEEL DESK TOPS — LINOLEUM COVERED

Available in
matching or contrasting shades.



No. 1712
\$122.00

Shpg. Wt. 183 lbs.

The perfect desk companion. Two sliding door storage cabinets under lock and key. Heavy steel top, linoleum covered. 63½" w, 29" h, 19¼" d.

LARGER UNIT—Three sliding door cabinets instead of two. Size: 94" wide, 29" high, 19¼" deep.
Shpg. Wt. 276 lbs. No. 1735**\$205.00**

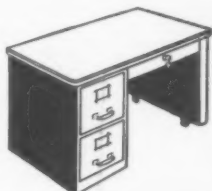


No. 1718
\$115.00

Shpg. Wt. 153 lbs.

Smart in appearance. Has a full depth, suspension, letter size drawer. 2 drawers for 3 x 5 or 4 x 6 cards (7200 cap.). An arm rest plus a center drawer with lock. Heavy steel. 34" wide, 29" high, 26½" deep.
No. 1718**\$115.00**

Same as above — 40" wide instead of 34".
Shpg. Wt. 148 lbs. No. 1709**\$119.50**



Will enhance the beauty of your office. Two letter drawers plus a center drawer with lock and key. 34" w, 29" h, 26½" d.
No. 1719**\$105.00**
Shpg. Wt. 147 lbs.
Same as above but 40" wide.
No. 1710**\$112.00**
Shpg. Wt. 153 lbs.

Space Saving

STEEL DESK UNITS

Improves office efficiency and increases work space. Letter drawers are equipped with full suspension arms and spring compressors.
Heavy steel, aluminum trimmed linoleum top.



COLORS . . .
Mist Green,
Olive Green,
Desert Sand or Cole Gray.

DESKS "A", "B" and "C" ALSO MADE IN THESE SIZES

Add this key letter to item number	FOR SIZES LISTED BELOW	W.	H.	D.	Addition to price shown under illustration
A	34"	29"	26½"		\$ 7.50
B	40"	29"	19¼"		4.00
C	40"	29"	26½"		11.75
D	58"	29"	19¼"		10.00
E	58"	29"	26½"		20.00
F	63½"	29"	26½"		24.50

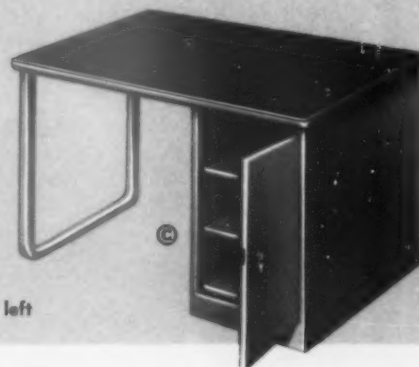
When ordering, place key letter (showing size desired) after desk number. No arm rest in 19¼" deep desks.

A One letter drawer, two drawers for 3 x 5 or 4 x 6 cards (7200 cap.). 34" x 29" x 19¼".
No. 1721X **\$80.00** Shpg. Wt. 108 lbs.
Above with plunger-type lock...**\$9.00** add'l.

B Two full suspension letter drawers. Heavy steel. Size: 34" wide, 29" high, 19¼" deep.
No. 1721 **\$69.95** Shpg. Wt. 102 lbs.
With lock for both drawers ...**\$4.95** add'l.

C Storage cabinet under lock and key. Three compartments. 34" w, 29" h, 19¼" d.
No. 1725 **\$59.95** Shpg. Wt. 87 lbs.

* OTHER SIZES AVAILABLE See listing at left



COLE'S IMPERIAL COUNTER HEIGHT INSTALLATIONS



**STEEL COUNTER TOPS
LINOLEUM COVERED**

Available in matching or contrasting shades

Safety cabinet installations with sliding tambour doors that roll out of sight upon opening. Adds considerably to office decor. Ideal for the executive who wants his work papers or books hidden from view. Heavy gauge steel. Inside shelves are 25" wide, 15¼" deep, adjustable on 2" centers. Lock and key.

EXCITING COLORS . . .
Mist Green, Olive Green,
Desert Sand or Cole Gray.

	W.	H.	D.	No.	Price
1 CABINET UNIT	63½"	38¼"	19½"	3602T	\$214.00
2 CABINET UNIT	7¾"	38¼"	19½"	3603T	\$349.50
3 CABINET UNIT	10½"	38¼"	19½"	3604T	\$436.00
4 CABINET UNIT	13"	38¼"	19½"	3605T	\$519.00

	W.	H.	D.	No.	Price
1 CABINET UNIT	63½"	38¼"	19½"	3602	\$138.00
2 CABINET UNIT	7¾"	38¼"	19½"	3603	\$207.00
3 CABINET UNIT	10½"	38¼"	19½"	3604	\$276.00
4 CABINET UNIT	13"	38¼"	19½"	3605	\$345.00

Safeguard YOUR VALUABLES AND VITAL PAPERS

Protects important papers. A dial lock secret vault, (only you know the combination). Plus three letter files. 14¾" w, 52¼" h, 26½" d. Heavy gauge steel. Mist Green, Olive Green, Desert Sand or Cole Gray baked enamel finish.

No. 2004D
\$74.50

Shpg. Wt. 135 lbs.
With plunger lock
No. 2004DL
\$84.50

DESK HEIGHT
One letter drawer plus secret vault.
Desk high, 14¾" wide, 24" deep.

No. 2002D
\$55.00

Shpg. Wt. 67 lbs.
With plunger lock
No. 2002DL
\$60.45



Prices slightly higher in Texas, Colorado, and West of the Rockies

COLE STEEL EQUIPMENT CO., INC. • NEW YORK 17, N. Y.

A5



"IMPERIAL" CABINETS

A new concept in dramatic executive office furniture. Smartly styled steel safety cabinet with sliding tambour doors that roll out of sight upon opening. Three adjustable compartments with lock and key. 30 1/2" wide, 37 1/2" high, 17" deep. Mist Green, Olive Green, Desert Sand or Cole Gray baked enamel.

Shpg. Wt. 104 lbs.

No. 3349-L\$69.00

As above but without doors

No. 3349-S\$55.00

Cole's STEEL BOOKCASES

Constructed of heavy steel, electrically welded throughout. Designed for many uses. Keeps supplies, catalogs and printed matter neat and orderly. Four adjustable compartments. 30 1/2" wide, 37 1/2" high, 17" deep. Mist Green, Olive Green, Desert Sand or Cole Gray. No. 349-S\$33.25

Shpg. Wt. 73 lbs.

DESK HEIGHT BOOKCASE

Same as above but 28" high, with two adjustable compartments.

No. 208\$26.50

Shpg. Wt. 57 lbs.



"MAILING LIST" CABINETS

Designed for card record systems. Heavy steel. 52 1/4" h, 16" d. Olive Green or Gray.

18 Drawer Units

(Height of a 4 drawer file) 28,800 capacity

No.	Card Size	W.	Price	Wt. lbs.
6-3353	3x5	18 3/4"	\$56.50	120
6-3463	4x6	21 3/4"	\$115.50	137
6-3583	5x8	27 3/4"	\$138.00	175
6-3693	6x9	30 1/2"	\$186.00	205
6-3373	Tabulating Card	26 7/8"	\$165.00	162

Cole's BLUEPRINT CABINETS

Heavy gauge steel units. Smooth gliding drawers on ball-bearing rollers. Rear hood and lift compressor in front protects contents. Units can be added and interlocked. Olive Green or Gray.

Illustrated above, two 5 drawer units on a sanitary base.



No.	Inside Drawer W. H. D.	Outside Cabinet W. H. D.	Price	Wt. lbs.
4030	37" 2 1/4" 25"	40 3/4" 15 1/2" 28 3/4"	\$99.75	169
30-B	Base for above cabinet, 7 1/2" high..		17.50	24
4332	43" 2 1/4" 32"	46 3/4" 15 3/4" 35 3/4"	\$132.00	251
433-B	Base for above cabinet, 7 1/2" high..		19.50	28
5038	50" 2 1/4" 38"	53 3/4" 15 3/4" 41 3/4"	\$160.00	309
538-B	Base for above cabinet, 7 1/2" high..		23.00	31

KEY LOCK controlling all Five drawers.....\$15.00 add'l.



"SAMPLE" CABINET Olive Green or Gray. Smooth gliding, ball suspension steel drawers, for materials up to 19" x 24" without folding.

11 DRAWERS No. 1924.....\$79.00

INSIDE DRAWER W. H. D.	CABINET SIZE W. H. D.	Shpg. Wt.
24" 2 3/8" 19 1/2"	27 3/4" 37 1/2" 20 1/4"	157 lbs.

10 DRAWERS No. 1722.....\$77.50

INSIDE DRAWER W. H. D.	CABINET SIZE W. H. D.	Shpg. Wt.
22 7/8" 3" 17 1/2"	25 3/4" 37 1/2" 18 1/4"	128 lbs.

SLIDING DOOR CABINET

For use in close quarters. No swinging doors to block aisles. Large and roomy. Constructed of heavy gauge steel. Five adjustable compartments. Equipped with lock and key. 76" high, 36" wide, 19 3/4" deep. Olive Green or Cole Gray. No. 7636L\$81.45

Shpg. Wt. 170 lbs.

Same as above but without lock

No. 7636\$74.95

COUNTER HEIGHT

As above but 40" h, 30" w, 26 3/4" deep. Two shelves.

No. 800-SL

\$59.00

Shpg. Wt. 115 lbs.



"Safe-Type" STORAGE CABINET

A fine addition to any office. Easily assembled. Heavy gauge steel and protected by strong doors equipped with a two-way locking device controlled by a paracentric lock. 76" high, 36" wide, 18 1/2" deep. Olive Green or Gray. No. 76\$69.50

Shpg. Wt. 160 lbs.

DECORATOR SHADES: Above cabinets are available in Mist Green or Desert Sand\$20.00 add'l.

27 DRAWER CABINETS

Saves money by protecting important matter. Ideal for cancelled checks, catalogs, office forms, cuts, photographs. Heavy steel, Olive Green or Gray.

DIVIDER PARTITIONS: Partitions as illus. available. A set divides drawer in 3 parts.

Cabinet No.	For use with	Price Per Set
2712	Horizontal No. 55	Vertical No. 66 \$.95
2716	Horizontal No. 655	Vertical No. 666 .95
2414	Horizontal No. 455	Vertical No. 466 1.60

27 DRAWER CABINET PRICES

No.	Am't of Dr'ws.	Size	Inside Drawers W. H. D.	Outside Cabinet W. H. D.	Price	Shpg. Wt.
2712	27	Letter Size	9" 3 1/2" 12"	30 1/2" 37 1/2" 13"	\$47.95	99 lbs.
2716	27	Legal Size	9" 3 1/2" 16"	30 1/2" 37 1/2" 17"	\$6.95	113 lbs.
2414	14	Cancelled Check	10 1/4" 4 1/2" 24"	23 1/2" 37 1/2" 25"	\$9.00	128 lbs.
2773	27	Tabulating Card	7 3/4" 3 3/4" 24"	26 1/4" 37 1/2" 25"	\$115.00	160 lbs.

LOCK which will lock all drawers of above cabinets.....\$11.00 add'l.

"SAFETY" CABINET

Keeps your office supplies and printed matter under lock and key. Will pay for itself by preventing pilferage. Olive Green or Cole Gray.

TWO DOOR CABINETS

Two adjustable shelves. 30 1/2" x 37 1/2" x 17".

Shpg. Wt. 78 lbs.

No. 349L \$45.00

Two welded shelves. 24" x 37 1/2" x 17".

Shpg. Wt. 60 lbs.

No. 471 \$34.75

DECORATOR SHADES: Above cabinets in Mist Green or Desert Sand\$15.00 add'l.

COUNTER HEIGHT CABINETS

One door, 3 adj. shelves. 14 7/8" x 40" x 26 3/4".

Shpg. Wt. 70 lbs.

No. 402 \$32.50

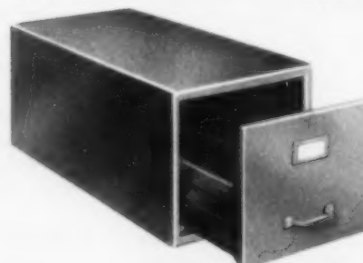
DECORATOR SHADES: Above in Mist Green or Desert Sand\$15.00 add'l.

Two doors, 3 adj. shelves. 30" x 40" x 26 3/4".

Shpg. Wt. 115 lbs.

No. 800 \$59.00

DECORATOR SHADES: Above in Mist Green or Desert Sand\$20.00 add'l.



STEEL TRANSFER CASES

Priced so low you now can afford to use steel files instead of cardboard. Heavy gauge steel, electrically welded throughout. Equipped with convenient card holder and wide steel handle. Extra heavy reinforced channels. Files can be interlocked into solid barrier. Olive Green or Cole Gray.

No.	Size	INSIDE DIMENSIONS W. H. D.	Packed Singly	Shpg. Wt.	Packed 2 to a carton	Shpg. Wt.
112	Letter	12 1/4" 10 1/2" 23 1/2"	\$9.95 ea.	21 lbs.	\$9.75 ea.	40 lbs.
115	Legal	15 1/4" 10 1/2" 23 1/2"	11.75 ea.	23 lbs.	11.55 ea.	47 lbs.
110	Check	10 1/4" 4 1/2" 23 1/2"	9.20 ea.	14 lbs.	8.95 ea.	28 lbs.

With smooth gliding ball-bearing rollers...

1200	Letter	12 1/4" 10 1/2" 23 1/2"	11.15 ea.	20 lbs.	10.85 ea.	41 lbs.
1500	Legal	15 1/4" 10 1/2" 23 1/2"	13.95 ea.	23 lbs.	13.65 ea.	47 lbs.



"DIRECTOR" FILE

3 suspension letter files. Secret vault plus storage space under lock and key. 30½" x 37½" x 17".

No. 1473.....\$56.95

Shpg. Wt. 108 lbs.

Above with plunger type lock No. 1473PL.....\$64.45

LEGAL SIZE with legal instead of letter size drawers.

No. 1873.....\$64.95

Shpg. Wt. 114 lbs.

Above with plunger type lock No. 1873PL.....\$72.45



"MODERN" FILE

Three letter files, 2 drawers for 3x5 or 4x6 cards (6400 cap.), secret vault plus storage space under lock and key. 30½" x 51½" x 17". Olive Green or Cole Gray.

No. 991 \$91.75 Shpg. Wt. 153 lbs.

Above with plunger type lock No. 991PL.....\$102.75

FOUR LETTER DRAWERS Shpg. Wt. 143 lbs. Same as above but with four letter size drawers instead of three (no card drawers).

No. 990.....\$87.95

Above with plunger type drawer lock No. 990PL.....\$98.95

LEGAL SIZE Shpg. Wt. 154 lbs.

As above but with four legal instead of letter drawers (no card drawers). 33½" wide. No. 1090.....\$94.50

Above with plunger type drawer lock No. 1090PL.....\$105.50

DECORATOR SHADES: Above in Mist Green or Desert Sand.....\$15.00 add'l.



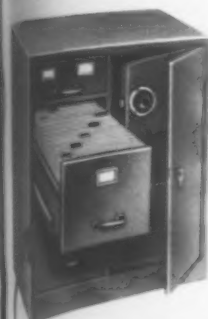
Cole's "DESK 'n FILE" cabinet

A retractable desk, a safe for valuables, drawers for checks, files for letters, compartments for books and drawers for index cards. A complete office protected by two doors under lock and key. 32½" x 60" x 19". Olive Green or Cole Gray.

Shpg. Wt. 245 lbs. No. 1093 \$119.00

SPECIFICATIONS	INSIDE DIMENSIONS		
	Wide	High	Deep
Top Vault	16"	8"	16"
Shallow Drawers	13¾"	2"	16"
Card Drawers	6¼"	4½"	16"
Check Drawers	12½"	4½"	16"
Letter Drawers	12½"	10¾"	16"

"EXECUTIVE" FILE→
Two full suspension letter files, 2 drawers for 3x5 or 4x6 cards (6400 cap.), secret vault plus storage, lock and key. 30½" x 37½" x 17".
No. 1478.....\$62.75
Shpg. Wt. 119 lbs.
Above with plunger type lock No. 1478PL.....\$70.25
LEGAL SIZE... with legal instead of letter size drawers
No. 1878.....\$69.95
Shpg. Wt. 125 lbs.
Above with plunger type lock No. 1878PL.....\$77.45



"MERCHANT'S" FILE

Two full suspension letter files, drawer for 3x5 or 4x6 cards (3200 cap.), plus a secret vault and two adjustable storage compartments both protected by an outer door under lock and key. 30½" x 32" x 17".

No. 1370.....\$52.25

Shpg. Wt. 99 lbs.

Above with plunger type lock No. 1370PL.....\$59.75

COLORS:

Above files available in Mist Green, Olive Green, Desert Sand or Cole Gray.

FULL SUSPENSION

Cole's "FILE VAULT"→

Contains two full suspension letter files, 2 double drawers for 3x5 or 4x6 cards (6400 cap.) also used for leases, contracts or cancelled checks. Plus a dial lock secret vault, doubly protected by outer doors under lock and key. Also has three compartments plus shelf for books or supplies. 32½" wide, 60" high, 19" deep. Olive Green or Cole Gray baked enamel finish.

No. 992.....\$105.00



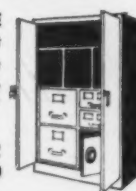
Shpg. Wt. 195 lbs.

LEGAL SIZE

Similar to above cabinet but with two legal size instead of letter size file drawers. 35½" wide, 60" high, 19" deep.

No. 1092 \$110.00

Shpg. Wt. 210 lbs.



Prices slightly higher in Texas, Colorado, and West of the Rockies

modern office lamps by COLE



CORSAIR—Adjustable arm, 3-way switch, light diffuser. Satin brass, 17" high. Mist Green, Desert Sand or Gray.

No. 14LA.....\$39.95



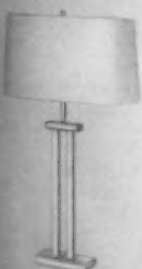
WINDSOR—Satin brass, 16" high. Base switch, built-in light diffuser. 15" swivel shade. Mist Green, Desert Sand or Gray.

No. 12LA.....\$27.50



Varsity—A dramatic desk lamp, approved by Underwriters Laboratory. Special diffuser shade. Cole Gray only.

No. 5LA.....\$9.95



IMPERIAL—Shade 11" x 16" of natural Irish linen on white metal. Satin brass, 25" high.

No. 7LA.....\$31.50



MAYFAIR—24½" h, 17" shade. No. 3LA.....\$22.95

As above, 18½" high, round column and base. 13" shade. No. 4LA.....\$19.95



REGAL—A 16" high satin brass desk lamp. Base switch. Mist Green, Desert Sand or Gray.

No. 9LA.....\$29.95



"PRESIDENTS" FILE

No. 475 \$76.75

Shpg. Wt. 154 lbs.

Four letter drawers, two drawers for 3x5 or 4x6 cards (6400 cap.), secret vault protected by outer doors. 32½" x 37½" x 19".

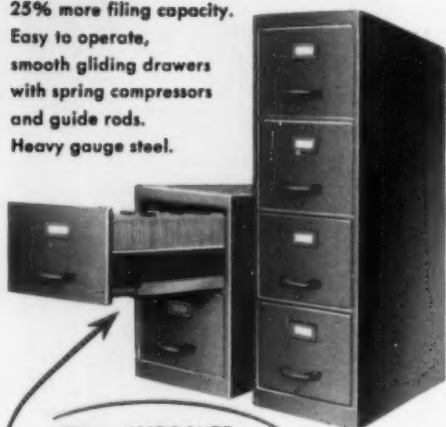
No. 475.....\$76.75

DECORATOR SHADES: Above in Mist Green or Desert Sand.....\$15.00 add'l.

STANDARD COLORS: All above cabinets in Olive Green or Gray at no extra cost.

Cole's FULL SUSPENSION FILES

25% more filing capacity.
Easy to operate,
smooth gliding drawers
with spring compressors
and guide rods.
Heavy gauge steel.



**NEW... IMPROVED
FULL SUSPENSION**

TWO DRAWER Desk High

Size	No.	Wide	High	Deep	Price
LETTER	202	14 7/8"	28"	24"	\$37.50
	Above with lock				42.45
LEGAL	502	17 7/8"	28"	24"	42.00
	Above with lock				46.95

THREE DRAWER Counter Height

LETTER	203	14 7/8"	40 1/2"	26 3/4"	47.95
	Above with lock				56.95
LEGAL	503	17 7/8"	40 1/2"	26 3/4"	54.25
	Above with lock				63.25

FOUR DRAWER

LETTER	204	14 7/8"	52 1/4"	26 3/4"	49.95
	Above with lock				58.95
LEGAL	504	17 7/8"	52 1/4"	26 3/4"	59.95
	Above with lock				68.95

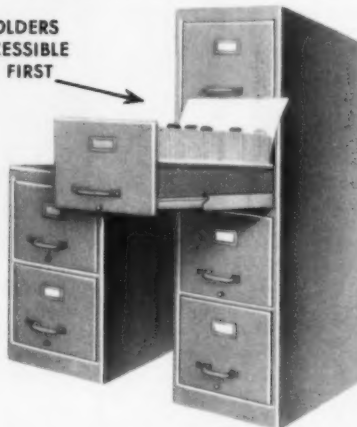
FIVE DRAWER Save valuable office space

LETTER	205	14 7/8"	60"	26 3/4"	69.00
	Above with lock				79.00
LEGAL	505	17 7/8"	60"	26 3/4"	76.00
	Above with lock				86.00

DECORATOR SHADES: Above files in Mist Green, Olive Green, Desert Sand or Cole Gray.

Executive FULL SUSPENSION FILES

LAST FOLDERS
AS ACCESSIBLE
AS THE FIRST



Finger touch control causes drawers to glide smoothly and quietly when fully loaded. With safety latches and positive side lock compressors.

TWO DRAWER Desk High

Size	No.	Wide	High	Deep	Price
LETTER	1402	14 7/8"	28"	24"	\$43.00
	Above with lock				47.95
LEGAL	1902	17 7/8"	28"	24"	47.50
	Above with lock				52.45

THREE DRAWER Counter Height

LETTER	1403	14 7/8"	40 1/2"	26 3/4"	51.25
	Above with lock				60.25
LEGAL	1903	17 7/8"	40 1/2"	26 3/4"	59.25
	Above with lock				68.25

FOUR DRAWER

LETTER	1404	14 7/8"	52 1/4"	26 3/4"	59.50
	Above with lock				68.50
LEGAL	1904	17 7/8"	52 1/4"	26 3/4"	65.50
	Above with lock				74.50

FIVE DRAWER Saves 25% Floor Space

LETTER	1405	14 7/8"	60"	26 3/4"	76.50
	Above with lock				86.50
LEGAL	1905	17 7/8"	60"	26 3/4"	82.50
	Above with lock				92.50

Imperial FULL SUSPENSION FILES



a new
concept in
executive
office
furniture



Designed for the top executive. Filing cabinets that radiate an assurance of achievement. "Whisper-touch" ball-bearing full suspension. Heavy steel.

TWO DRAWER Desk High

Size	No.	Wide	High	Deep	Price
LETTER	3202	16"	28"	24"	\$44.00
	Above with lock				74.00
LEGAL	3502	19"	28"	24"	69.00
	Above with lock				79.00

THREE DRAWER Counter Height

LETTER	3203	16"	40 1/2"	26 3/4"	95.00
	Above with lock				105.00
LEGAL	3503	19"	40 1/2"	26 3/4"	99.75
	Above with lock				109.75

FOUR DRAWER

LETTER	3204	16"	52 1/4"	26 3/4"	98.00
	Above with lock				108.00
LEGAL	3504	19"	52 1/4"	26 3/4"	107.50
	Above with lock				117.50

DECORATOR SHADES:

"Imperial Files" available in Mist Green, Desert Sand or Cole Gray baked enamel finish.

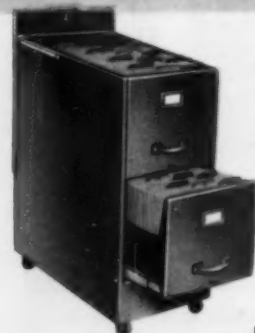


*Clear up
your office
and stockroom
NOW!*

Cole's STEEL SHELVING UNITS

Heavy gauge steel, yet costs no more than wood. 50% more capacity than standard units. Shelves are adjustable on 2" centers, can be raised or lowered, or more shelves added. Easily assembled. Olive Green or Cole Gray baked enamel finish.

No.	Wide	High	Deep	Compartments in Ea. Unit	ONE UNIT — PRICE PER UNIT —	THREE UNITS	SIX UNITS	Additional Shelves
8712	36"	87"	12"	Six	\$43.00	\$42.00	\$41.00	\$3.25 ea.
8718	36"	87"	18"	Five	49.00	48.00	47.00	4.25 ea.
8724	36"	87"	24"	Five	63.50	62.50	61.50	4.95 ea.
9XB	30 1/2"	49"	9 7/8"	Four	27.50	27.25	27.00	2.95 ea.
207	30 1/2"	26"	17"	Two	24.95	24.85	24.50	4.00 ea.
4026	30"	40 1/2"	26 3/4"	Three	46.95	46.25	45.95	6.95 ea.



Cole's PORTABLE DESK FILES

Upper compartment with lift cover for visible records under lock and key. Full suspension lower file drawer. Swivel casters, spring compressors and guide rods. Olive Green or Cole Gray. 30 3/4" high.

	Green or Gray	Grained Finishes
LETTER SIZE		
No. 854	\$51.00	\$61.00
LEGAL SIZE		
No. 858	\$65.00	\$75.00
Shpg. Wt. 77 lbs.		
Add'l. lock on bottom drawer..... add \$2.95		

	Wide	High	Deep	Wide	High	Deep
LETTER SIZE						
Upper section	13"	10 3/4"	24 3/4"	16"	10 3/4"	24 3/4"
File Drawer	12 1/4"	10 1/2"	24 1/2"	15 1/4"	10 1/2"	24 1/2"

Cole's "RECORD CARD" FILES

Ideal for important records. A full suspension letter file, two drawers for 3x5, 4x6 cards or cancelled checks. Has a reference slide shelf. Olive Green or Gray, 14 7/8" wide.

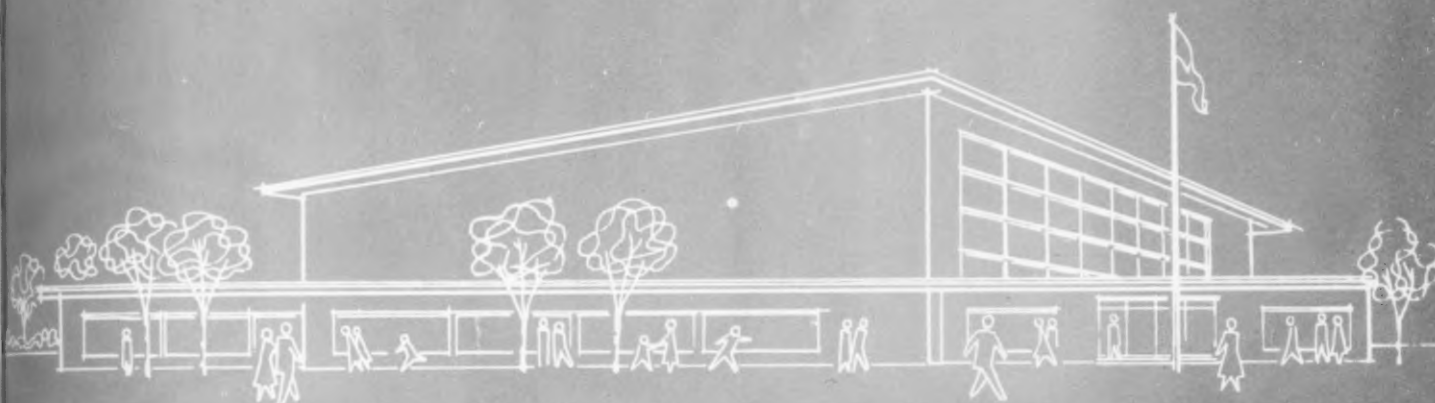
No.	High	Deep	Price	With Lock	Shpg. Wt.
321	28"	24"	\$49.50	\$58.50	77 lbs.
321-18	26"	17"	47.50	56.50	57 lbs.
*321-18b	28"	17"	48.50	57.50	61 lbs.
*with base					



COUNTER HEIGHT 14 7/8" w, 40" h, 26 3/4" d.
As above with two letter drawers instead of one plus two drawers for 3x5 or 4x6 cards (8000 cap.)
Price With Lock
No. 322 \$62.50 \$71.50
Shpg. Wt. 112 lbs.

STEEL AGE OFFICE FURNITURE

for Schools



CORRY - JAMESTOWN MFG. CORPORATION

Steel Age

STEEL AGE "Correlation" DESKS *for Schools*

**"Correlation" Modular Design
provides Real Flexibility
and Economy**



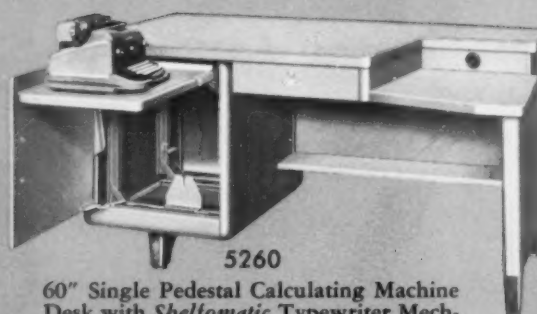
5560

A distinctive desk designed with three top sizes — 55" x 30", 60" x 30", and 66" x 30".



5576

Expansive Conference Desk with overhang at right, left and rear. Top area 76" x 38".



5260

60" Single Pedestal Calculating Machine Desk with *Shelfomatic* Typewriter Mechanism in Pedestal. Available in right or left hand models.

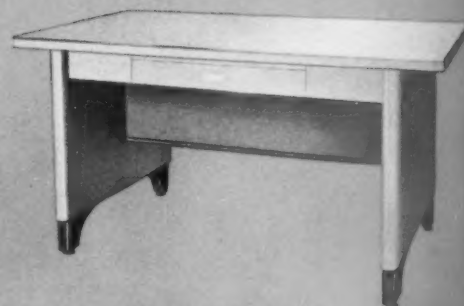
"Correlation" TABLES AND COMPANION UNITS



**5222
5232**

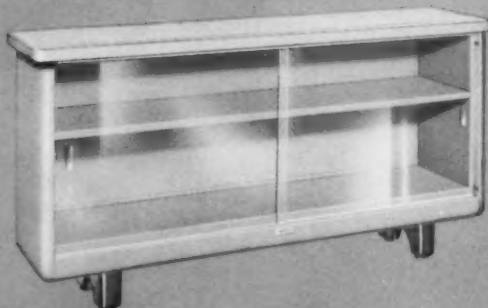
A Bookcase sturdy and rich in appearance. Style 5222 is 42" high and 5232 is 51 1/2". Adjustable shelves and sliding glass doors.

The complete "Correlation" Line includes matching tables and attractive, companion cupboards, credenzas, bookcases and telephone stands. Each utility piece is equally suitable and attractive whether used as an individual unit or in a combination group with a common top. And the integral combination of desk and companion furniture makes the most efficient use of any given area of floor space. All "Correlation" companion pieces are available with your option of glass or steel doors.



5960-REP

Work Table with modern end panels. An exact match for Executive Desks, providing additional work room for reports, cost sheets and analyses. 60" x 30" top.



5310 Large Bookcase with one adjustable shelf, glass sliding doors. 60" x 20" top.



5581

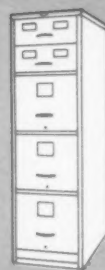
Typewriter Table with additional work space. Easy to insert or remove.

Steel Age

STEEL AGE GRADE "A" FILES *for Schools*

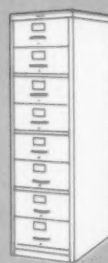
Designed for Superb Work and Lifelong Durability

You can solve virtually *all* your school filing problems more efficiently with this *one*, perfectly matched line of quality files... Steel Age Grade "A" Files. Included in the line is practically every type of standard and special file needed for school use, from letter and card index styles, to microfilm and invoice styles. All models can be furnished with general automatic locks. All files are 28½" deep.



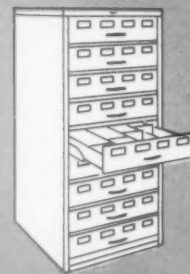
8A41-2F

Combination File. 2 drawers for 5x3 or 6x4 cards. 3 drawers for letter filing. 14⅞" W x 51⅞" H.



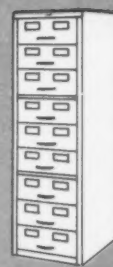
8A41-8E

Eight-drawer Check File. 14⅞" W x 51⅞" H.



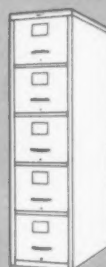
8A414

Nine-drawer, four-compartment Microfilm File. 20¼" W x 51⅞" H.



8A42

Nine-drawer double compartment Card File for 6 x 4 cards. 14⅞" W x 51⅞" H.



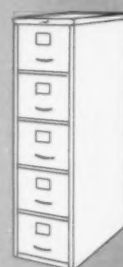
8A45

Five-drawer Bill File. 12⅞" W x 51⅞" H.



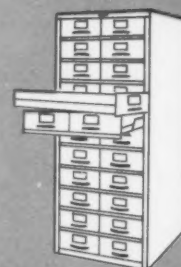
8A47

Seven Double Compartment Drawers, 8 x 5 cards. 18⅞" W x 51⅞" H.



8A52-8A54

Low height, 5-drawer Letter and Legal Files. (Side-arm type progressive suspension). Just 57½" high!



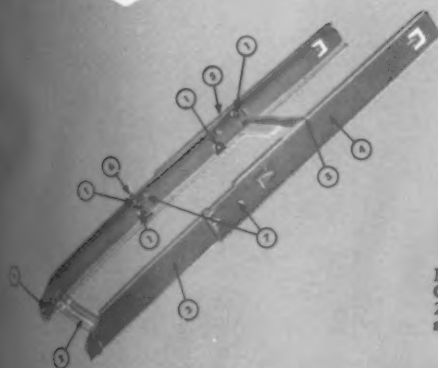
8A87

11-drawer, 22-tray Tabulating Card File, with removable trays. Full-progressive suspension for each drawer. 20⅞" W x 52⅞" H.

- 8A51 — 5-Drawer Letter File. 14⅞" W x 59⅞" H.
 8A41 — 4-Drawer Letter File. 14⅞" W x 51⅞" H.
 8AT31 — 3-Drawer Counter-High Letter File (with adjustable toe space base). 14⅞" W x 42" H.
 8A21 — 2-Drawer Desk High Letter File. 14⅞" W x 29" H.

Steel Age

GRADE "A" FILE CONSTRUCTION FEATURES



Full Progressive Ball Bearing Cradle Suspension

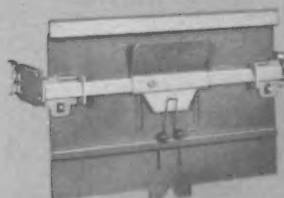
1. Ball Bearing and Stud Rollers.
2. Welded Cross Tie Member.
3. Heavy 14 Gauge Suspension Intermediate Slide.
4. Heavy 14 Gauge Suspension Case Channel.
5. Intermediate Stop.
6. Thumb Latch Catch.
7. Nylon Buttons on each Suspension. Prevent Excessive Wear. (Total 6).



MORE CLEAR FILING CAPACITY. Grade "A" file drawers have a full 26½" of clear filing capacity. It's just as easy to file at the back of the drawer as at the front.



TOUCH-OPEN DRAWER OPERATION. Steel Age file drawers glide open at a touch, even when fully loaded, on full-progressive ball bearing cradle-type suspensions having ten rollers (ball and stud bearing). Six nylon buttons on each suspension guard against excessive wear.



POSITIVE LOCKING COMPRESSOR. Rear view of Grade "A" positive locking, side acting pinch roller compressor. It never slips, yet moves easily with a slight squeeze.



EXTRA STURDY DRAWER CONSTRUCTION. Extra sturdy spot welded drawer construction with inside drawer heads, positive locking compressor and smooth drawer interiors. A convenient hand hole at back of drawer facilitates handling.



ABSOLUTE FRONT FRAME RIGIDITY. Ladder-type front frame construction assures absolute rigidity to STEEL AGE Files at all times, and permits insertion of the Optional Drawer Inserts.

STEEL AGE COMMERCIAL GRADE FILES *for Schools*

DOLLAR FOR DOLLAR...NO GREATER VALUE



8B51
5-Drawer Letter
File. 14 $\frac{1}{2}$ " W x
59 $\frac{3}{4}$ " H.

8B41
4-Drawer Letter
File. 14 $\frac{1}{2}$ " W x
51 $\frac{3}{4}$ " H.

8BT31
3-Drawer Counter-
High Letter File
(with adjustable
toe space base).
14 $\frac{1}{2}$ " W x 42" H.

8B21
2-Drawer Desk-
High Letter File.
14 $\frac{1}{2}$ " W x
29" H.

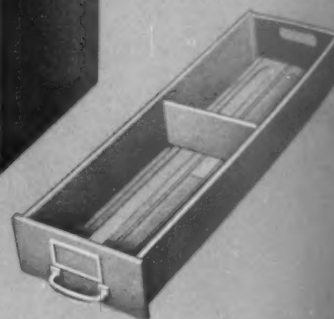
With a bonus of first-cost economy, Steel Age Commercial Grade Files maintain the Steel Age standards of endurance and quality construction that are so important for school installations. Drawers glide open smoothly and easily on full-progressive ball bearing suspensions and all compressors are positive, side-locking. The ladder-type front frame, heavy channel reinforcements and welded construction tell you that this file will give a lifetime of efficient, dependable service in your school.

STEEL AGE REMOVABLE TRAY FILES *for Schools*

Progressive school systems are increasing filing efficiency more every day through the use of removable tray card files. Here's why these work-saving Steel Age files should be in your school office:



1. Portable, easy-access trays for faster filing at desk or table.
2. Ball bearing suspension makes operation effortless.
3. Attractive white metal hardware.
4. Reinforced construction of heavy gauge steel for lifetime service.
5. Flanged hand hole provides comfortable, safe grip.
6. Cards kept firmly in place by positive compressor.



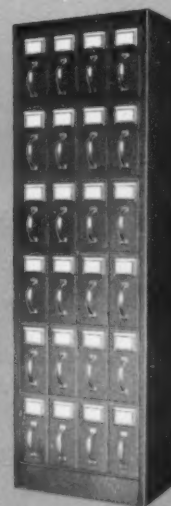
Available in styles to accommodate tabulating cards, checks and 5 x 3, 6 x 4 and 8 x 5 index cards.

STEEL AGE SPECIALTY UNITS *for Schools* Designed for Special Storage Requirements

Growing responsibilities and greater emphasis on efficiency have created a need for special filing and storage units in today's schools. More and more space is needed for things like plans, blueprints, addressograph trays and folded documents. In these special purpose files, too, the Steel Age trademark has become symbolic of well-constructed, highly functional units.

PLAN DRAWER FILES

Steel Age Plan Drawer Units are particularly important to schools for the protection of valuable drawings, tracings, blueprints and maps. Here is a practical and highly efficient method of filing these items. The illustration shows a typical drawer arrangement... ten-five-three-one. Units are made to hold three standard sheet sizes: 36 x 24, 42 x 30 and 48 x 36.



DOCUMENT FILES

(Style 411 illustrated)
24-drawer Document File. 20 $\frac{1}{4}$ " W x 72 $\frac{3}{4}$ " H x 14 $\frac{3}{8}$ " D. Other models in 12, 18, 36 and 48 drawer styles available.



BOOKCASES

(Style 1805 illustrated)
Single Faced Unit — 35 $\frac{1}{4}$ " W x 90" H x 10" D. Other Single and Double Faced units in 84" and 90" heights.

STEEL AGE Office Furniture is a product of CORRY-JAMESTOWN MFG. CORP., Corry, Pa.
and may be purchased at

STEEL AGE DEALERS in Cities throughout the Country

STEEL AGE Branch Offices are located in principal cities throughout the United States

GENERAL FIREPROOFING



metal furniture

CHAIRS
TABLES
DESKS
FILES
PARTITIONS
COUNTERS
CABINETS
SHELVING
SPECIAL
EQUIPMENT



For offices, lobbies, dining rooms, cafeterias, restrooms, classrooms, libraries, laboratories, other areas in public and private buildings—hotels, hospitals, banks, schools, clubs, courthouses, institutions, and business places.

GENERAL FIREPROOFING COMPANY

YOUNGSTOWN 1, OHIO

Printed in U.S.A.

Form No. 170M358



No. 3507
Goodform Comfort
Master DeLuxe

Goodform ALUMINUM

REG. U.S. PAT. OFF.

ADJUSTABLE OFFICE CHAIRS

Style, comfort and utility are outstanding in Goodform aluminum adjustable chairs. Seven models from Comfort Master DeLuxe to Secretarial No. 2123 provide seated comfort for every worker — president to typist.

Colors to meet decorative requirements are readily available. You have a wide choice of upholstery fabrics. Standard finish is anodized natural aluminum. Color anodized finishes in gold, ebony and other hues are available.

Comfort is assured by five adjustments on each chair which fit it to the individual needs of the user. Seats and backs are cushioned with foam rubber.

Welded, heat treated aluminum frames are light weight, fire resistant, rigid and strong. The extremely hard anodized finish does not scratch or mar easily and is simple to clean. Hundreds of Goodform adjustable chairs made over 20 years ago are still serviceable and good looking.

Also available are companion chairs to go with adjustable models and non-adjustable swivel chairs.

Comfortable, lightweight, adjustable chairs for all office workers



No. 3129
Comfort
Master



No. 3257
Comfort Master
Junior



No. 2157
Swivel
Arm Chair



No. 2125
Swivel
Chair



No. 2121
Male
Clerical Chair



No. 2123
Female
Secretarial Chair

Attractive companion chairs of easy-to-clean aluminum



No. 3502
Upholstered
Arm Chair



No. 3326
Upholstered
Arm Chair



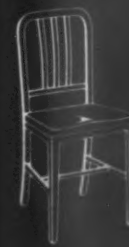
No. 3324
Upholstered
Chair



No. 2326
Upholstered
Arm Chair



No. 2324
Upholstered
Chair



No. 2034
Upholstered
Chair

CHAIRS AND TABLES

INSTITUTIONAL FURNITURE

Goodform aluminum institutional chairs and tables are ideal for restaurants, cafeterias, dining rooms, meeting rooms, ballrooms and other areas—in hotels, hospitals, schools, libraries and institutions both public and private.

Color anodized aluminum finishes, set off by colorful upholstery fabrics, help the decorator use these chairs to carry out effects of unusual individuality, smartness and distinction. From a utility angle, these chairs are fire-resistant, light to handle and inexpensive to clean. They retain their beauty for years.

Many styles are available, both with and without arms.



No. 4310
Goodform Chair
in Ebony Finish



No. 4206
30 x 42
Aluminum Table

Table tops
are
Textolite
or
Formica



No. 4218-30
30-inch
Aluminum Table

Smartly styled chairs now available in color-anodized finishes



No. 4419
Institutional
Chair



No. 4302
Institutional
Chair



No. 4295
Institutional
Chair



No. 4706
Institutional
Chair



No. 4275
Institutional
Chair



No. 4707
Institutional
Chair

Sectional lounge furniture and harmonizing tables in aluminum



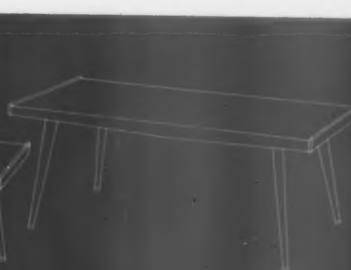
No. 5250
Sectional
Lounge Chair

One basic chair with deep-cushioned foam rubber seat and back can be used with or without arms, singly or in groups of two or three.

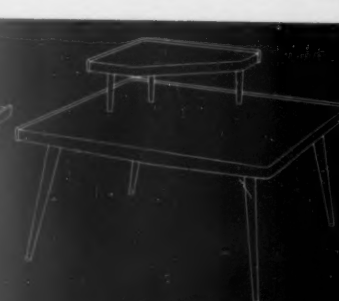
End, corner and coffee tables are made with natural aluminum, gold, ebony and other color-anodized finishes and fitted with Textolite tops.



No. 4900
End Table



No. 4901
Coffee Table



No. 4902
Corner Table



Executive Desk No. 1780F in Autumn Haze, with 80" x 42" overhanging Textolite top. Note matching console unit back of desk.

A GF DESK FOR EVERY OFFICE JOB

100 models in three distinguished groups



Mode-Maker
REG. U.S. PAT. OFF.

No. 1770F EXECUTIVE DESK

America's finest desk! Now available in decorator finishes—Pine Frost, Glen Green, Autumn Haze, Manila Tan, Suede Brown and Standard Gray. Tops of Textolite or Velvolum. Lifetime steel construction. No projecting hardware, sharp edges or corners. Aluminum trim may be color anodized. 28 models, each in either 29" or 30½" height. Tables, console units and telephone stands to match.



Generalaire

No. 1960F 60" DESK

Designed for office efficiency and modern streamlined appearance. Flexible drawer arrangement and interchangeability of parts permit easy conversion from one model desk to another. Many unique features. 42 different desks and tables in the line make it admirably suited to any office large or small. Available in Standard Gray, Pine Frost or Suede Brown, with Velvolum or Textolite tops.



1600 Line

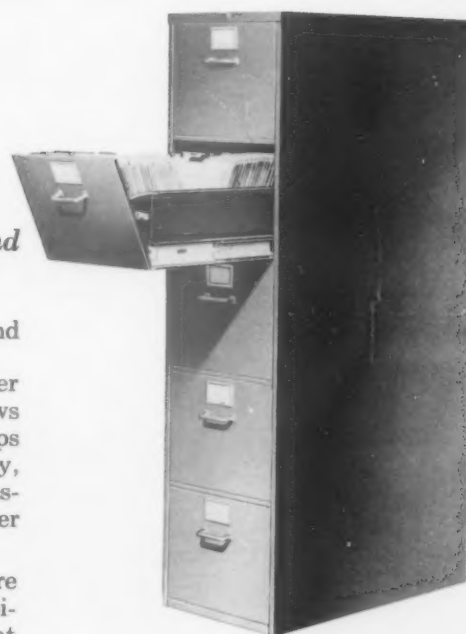
No. 1660FCR SECRETARIAL TYPEWRITER DESK

Leader in metal office desks for more than 30 years! Since its introduction in 1924, over 1,500,000 of the 1600 Line desks have been sold. Standard with hundreds of companies. It was the first production steel desk with only 4 legs and resilient Velvolum writing top. The simple, practical design has been modernized repeatedly. 30 different types and sizes of desks and tables.

Super-filer
REG. U.S. PAT. OFF.

THE MECHANIZED FILE

5-, 4-, 3- and 2-drawer units. Counter height files in low 4s and 3s. Fireproof insulated cabinets. Standard rigid front files



Super-Filer is as great an improvement over the rigid front steel files as were the latter over old-style, clumsy, heavy wood cabinets. Super-Filer is standard filing equipment in thousands of offices, from the largest insurance companies to small one-man businesses.

Super-Filer performs mechanically many operations done manually with conventional files. A swing front on each drawer mechanically adds working space for handling contents when a drawer is opened. Contents part instantly at the right place for removal or placement of papers.

The unique construction of Super-Filer means four-way saving to users:

1. Saving of time and effort in finding and filing.
2. Saving through increased payload (18%) in each drawer.
3. Saving equipment dollars. Two 5-drawer Super-Filers have the capacity of three 4-drawer conventional files.

4. Saving in floor space and maintenance costs.

Super-Filer Lo-4 and 3-drawer cabinets can be arranged in rows as counters, with continuous tops of Velvolum or Textolite. Many, flexible combinations for correspondence, cards, checks and other forms are possible.

"Fireproof" insulated files are furnished in 3 and 4 drawer cabinets. A full line of GF rigid front files is made also.





GF *Consolidator*

Flexible units to provide extra work surfaces and conveniences

GF Consolidator units are standardized metal parts with which you can assemble bookcases, files, cupboards, telephone stands and extra top working areas for any office. These units can be attached to a desk or can stand separately. No need to fasten them to walls or partitions. New units can be added at any time to match with and fit units already in use. They are furnished in the same six decorator colors and have the same style design as the GF Generalaire desk line.

The illustrations at left show two of the almost unlimited arrangements possible with Consolidator. Without taking up one inch more of floor space than occupied by the usual office furniture, Consolidator can provide an employee as much as a third more top working area. Consolidator units are simple to assemble. No special tools or skilled mechanics are needed. Any employee can set them up, dismantle them or rearrange them. Legs are adjustable to either 29" or 30½" high work surface to match desks.

Special furniture for Banks, Libraries, Hospitals and Schools

To serve institutions whose requirements are specialized, General Fireproofing operates a separate Contract Department which designs, builds and installs interior equipment. In the fifty years for which this individualized service has been offered, GF has equipped literally thousands of well known banks, hotels, schools, clubs, ships, trains, libraries, hospitals and other institutions in every state of the union.

The GF Contract Department maintains a staff of competent engineers, designers, and artists long experienced in working with architects, interior decorators, contractors and builders. They are familiar with the specialized needs of all manner of institutions, the

result of often repeated handling of diverse jobs, ranging from simple adaptation of stock furniture items to complete designing and building of interior equipment for the largest structures.

Hospital installations, for example, include the complete range of interior furnishings, such as cabinets for the storage of supplies and surgical dressings, instrument cases, utility cabinets, blanket warmers, counters, tables, desks, chairs and stools. Library equipment ranges from small cabinets for 3 x 5 cards to the planning, building and installation of complete building interiors, housing hundreds of thousands of volumes.



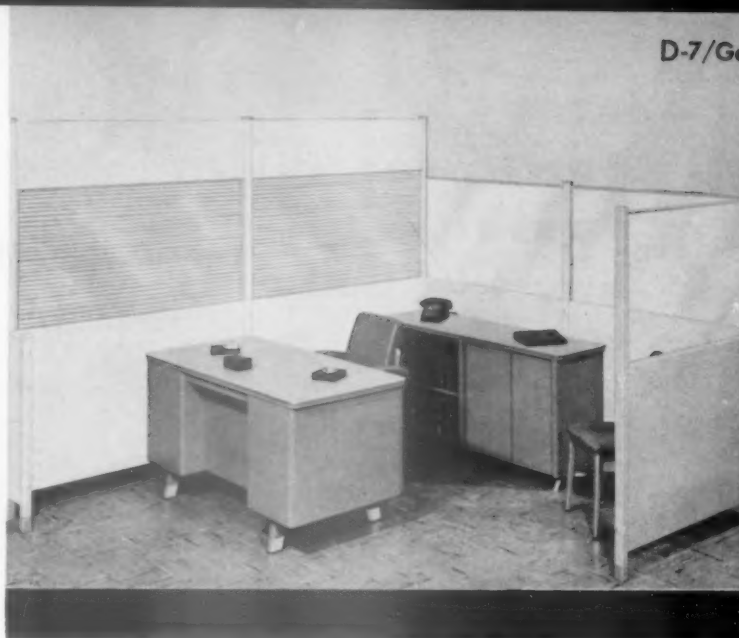
GF PARTITIONS

In every large office there are operations done better and more efficiently by small units in separate enclosures. And private offices for supervisors increase their prestige, improve morale.

GF movable partitions provide the way to tailor needed enclosures quickly and easily. The flexibility of assembly possible with standard-size posts, panels and doors allows for office arrangements in all shapes and sizes. Alterations can be made quickly and easily in any direction to meet future layout changes.

Free standing and less than ceiling high, these partitions provide privacy at a third the cost of permanent walls. They do not interfere with lighting, heating, ventilating and air conditioning arrangements. And erection of GF partitions creates no muss or bother; removal leaves no scars on floors, walls or ceilings. Only tools needed are wrench and screw driver.

GF partitions are made of heavy gauge steel, with inserts of clear or opaque glass, solid steel or acoustical paneling if desired. Panels, posts and doors come in standard sizes and in four heights which make possible almost unlimited flexibility of arrangement. Available in two pleasing wall colors—Balboa Green, Pebble Beige. Also available in 160 Gray. This durable, baked-on-enamel finish is easy to clean.



GF STEEL SHELVING

GF steel shelving is designed so that the simplest or most complex installation is assembled by the use of only a few basic parts. The basic structural elements are posts and shelves. To these, backs, sides, bin dividers, bin fronts, doors, and other stock accessories may be added as required.

The posts are angle type, with 1" and 1 3/4" faces. Both faces are punched on 1" centers so that shelves may be bolted to the posts where desired, and each shelf will be thus attached at eight points. The shelves, made in various widths and depths, are channel shaped on all four sides for maximum stiffness and load-carrying capacity. Shelves are punched lengthwise on 2" centers for attaching bin dividers.

A minimum of time and effort is required for installation. There is no need for special cutting or fitting on the job. The only tools required are a wrench and screw driver.

GF shelving has an oven-baked enamel finish, which is applied with the same care as is the finish on GF desks and files. Standard finish is GF gray. Olive green and other finishes are also available.



Draft-a-Matic *draftsmen work in comfort*

First new idea in drafting tables in many generations! A metal desk on which is hinged a Velvolum-covered drafting platform, adjustable to any desired angle. Drawing is attached to a wide, revolving, self-healing plastic belt. Proper portion of drawing is always immediately before the draftsman, who sits comfortably in a regular office chair. No standing, no stooping! Write for special Draft-a-Matic Bulletin.



**For lowest lifetime
cost it pays to
buy the best from
the world's foremost
maker of
metal furniture**

● The General Fireproofing Company has been a leading manufacturer of metal furniture for more than 50 years and today is the largest producer in the world of aluminum chairs, steel desks, steel files and steel shelving. Resulting from this long and versatile experience are the high quality, modern yet practical design, and the many progressive features for greater user benefits that characterize all GF products. It is this experience, also, that permits this company to place an unqualified guarantee on the workmanship in every item of its manufacture.

Since building its first aluminum chair in 1930, GF has produced more than four million seating units for offices, institutions, ships, trains, and planes.

Over 30 years' experience in metal desk manufacture stand behind GF's three great lines—Mode-Maker, Generalaire and 1600 Line. In that time more than two million desks and tables have been fabricated, most of which are still in service.

Twenty-two years ago, GF introduced Super-Filer, a radical innovation in filing equipment. Now it is the standard by which files are measured. No other file approaches Super-Filer in capacity, efficiency or ease



The General Fireproofing Company, Youngstown 1, Ohio

of operation. In 54 years of steel filing cabinet production, GF has placed in service upwards of fifteen million units of various types and sizes.

GF steel shelving and storage units are of the same high quality materials and workmanship present in all other items bearing the GF trademark. They are assembled to every user's individual requirements from standardized, shop-fabricated parts.

GF service to its customers does not stop with the manufacture and sale of stock furniture. A competent Contract Department designs and installs special equipment for banks, ships, hospitals, libraries and courthouses. A staff advisor assists in the layout of offices and the selection of furniture and furnishings in colors planned for decorative effect. GF service also includes repair and rebuilding of furniture when required and the supply of replacement parts.

THE GENERAL FIREPROOFING COMPANY • YOUNGSTOWN, OHIO
SALES AND SERVICE BRANCHES AND DEALERS



Direct factory branches in 15 cities and independent GF dealers in other cities, large and small, throughout America are prepared to meet your need for anything in the complete General Fireproofing line of metal furniture.

If you are not now in touch with the local GF sales and service dealer, consult the yellow pages of your classified telephone directory—or write the GF home office. GF branches are located as follows:

Boston 15, Mass.—805 Commonwealth Ave.
Chicago 1, Ill.—230 N. Michigan Ave.
Cleveland 14, Ohio—3510 Chester Ave.
Detroit 1, Mich.—2121 Second Ave.
Hartford 5, Conn.—30 Garden St.
Los Angeles 15, Calif.—1200 S. Hope St.
Minneapolis 1, Minn.—310 N. First St.
Newark 2, N. J.—14 William St.
New York 36, N. Y.—500 Fifth Ave.
Oakland 12, Calif.—322 Nineteenth St.
Philadelphia 3, Pa.—2301 Chestnut St.
Pittsburgh 12, Pa.—924 Manchester Ave.
St. Louis 3, Mo.—3033 Washington Ave.
San Francisco 3, Calif.—1025 Howard St.
Washington 4, D. C.—1325 E. St., N. W.

E FOOD SERVICE—HOMEMAKING—DORMITORY

1. Lunchroom

Boonton Molding Co.	E-1/Bo
The Chicago Hardware Foundry Company	E-1/Ch
Haldeman-Homme Mfg. Co.	E-1/Ha
Rol-Fol Table, Inc.	E-1/Ro
Schieber Sales Company	E-1/Sc
Food Warming Equipment Co., Inc.	E 502
The International Silver Company, Hotel Division	E 501
Keyes Fibre Company	E 504
National School Furniture Company, Div. of National Store Fixture Co., Inc.	E 510
Sico Manufacturing Company, Inc.	E 503

2. Kitchen

Hotpoint Co., A Division of General Electric Company	E-2/Ho
McCall Refrigerator Corporation,	
TherMcCold Corporation Division	E-2/McC
The Cleveland Range Company	E 505
Gifford-Wood Company	E 506
Groen Mfg. Co.	E 507
B. H. Hubbert & Son, Inc.	E 508
Market Forge Company	E 509
Molded Fiber Glass Tray Company	E 517
Puffer-Hubbard Refrigerator Company	E 511
United Manufacturers	E 512
The John Van Range Co.	E 513
Victory Metal Manufacturing Corp.	E 516
Wear-Ever Aluminum, Inc.	E 514, 515

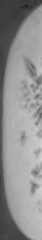
3. Homemaking Laboratory

Coppes, Inc.	E-3/Co
Mutschler Brothers Company, School Equipment Division	E-3/Mu
Singer Sewing Machine Co.	E 520

4. Residence Hall

Simmons Company, Contract Division	E-4/Si
Superior Sleeprite Corp., Contract Division	E 518, 519

Note: Manufacturers represented with complete catalogs are listed in bold face.



k

- Prove
- Prove
- Most
- the g



Boonton Patrician—most beautiful, break-resistant Melamine Dinnerware.

Boontonware®

Finest of all Melamine Dinnerware

- Proved most acceptable in millions of homes!
- Proved most appealing to millions of homemakers!
- Most often specified as the high quality standard in the group-feeding field!



Every year millions of homemakers choose Boontonware for home-dining pleasure. They purchased it for appealing beauty of styles, colors, patterns—good reasons for their pride of ownership. These same millions will enjoy dining with it in *your* group-feeding operation, too. Boontonware offers everything you need—the biggest, most complete style selection as well as exceptional strength that comes from special manufacturing techniques and an extra measure of remarkable Melamine. Employees love its ease of handling, stacking and minimization of clatter. Every piece of Boontonware with one exception far exceeds the minimum quality standards established by the Department of Commerce for heavy-duty Melamine dinnerware. As a result, it is the most often specified as the high quality standard in the group-feeding field—easily meeting specifications for schools, hospitals, restaurants, etc.

Boontonware® Deluxe

This is the famous Boontonware Deluxe that eliminates 90% of dinnerware breakage in group-feeding operations. Years of use have proved that nothing meets true Deluxe quality—it's the finest in the field! The timelessly attractive shape and extra heavy-duty weight have made Deluxe a favorite in group-feeding operations across the nation.

NEW DELUXE 5000 SERIES*

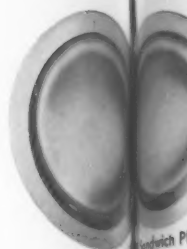
Now famous Boontonware Deluxe is also available in the new hallmark quality Deluxe 5000 series! Created specifically for the quality-conscious whose first concern must be economy and still maintain high standards, it substantially exceeds the minimum standards for heavy-duty Melamine dinnerware! New hallmark quality Deluxe duplicates the size, shape and desirable characteristics of regular Boontonware Deluxe.



Large Dinner Plate, 10"
102 or 5102



Dinner Plate, 9"
103 or 5103



Salad Plate, 8"
104 or 5104



201 Coffee
Cup, 8 oz.



206 Cup, 8 oz.



5101 Grill Plate, 9 3/8"



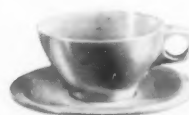
307 Leg Soup
Bowl, 16 oz.



204 Bouillon
Cup, 7 oz.



203 Tea Cup,
6 1/2 oz.



1206 Cup, 8 oz.
1202 Saucer, 6"



5203 Stacking Cup,
5202 Saucer, 6"

All four cups shown above are on 6" saucer, #202

BOONTON Patrician

Nothing in Melamine dinnerware is quite as lovely. A completely new shape was created especially to enhance the wondrous beauty of the patterns. The result: Boonton Patrician, the ultimate in fine Melamine dinnerware. The patterns themselves have been proved first in popularity, too. Before marketing them, many thousands of dollars were spent asking homemakers which patterns were preferred! Those with the top score make up the Patrician line. Actual sales have since proved the research results to be completely accurate. Now let the same consumers enjoy the exquisite beauty of the newest and finest Melamine dinnerware in your dining room.



4102 Dinner Plate, 10 1/2"



4104 Luncheon
Plate, 8 1/4"



4105 Dessert
or Sandwich
Plate, 6 1/2"



4607 Patterned Platter, 11"
3607 Solid Color Platter, 11"



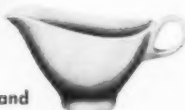
3102 Dinner Plate, 10 1/2"

SERVICE PIECES

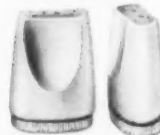
The most complete selection of accessory pieces in the Melamine dinnerware field. Attractive styles and generous capacities are but two of their many fine features. Boontonware service pieces are ideal for family-style dining. And the entire assortment includes pieces which meet the requirements of all types of group feeding. They complement every Boontonware shape, color and pattern.



3521 Sugar and
Creamer Set



520 Butter Dish



522 Salt and Pepper Set



605 Divided
Vegetable Serving
Dish, 10"



609 Bread Dish
or Centerpiece



604 Vegetable Serving
Dish or Salad
Bowl, 10"

603 Serving
Dish Cover

OPEN STOCK SPECIFICATIONS

Standard Package contains same item, one color.

REGULAR DELUXE

* DELUXE 5000 SERIES

Item No.	Stand. Pkge.	Ctn. Wgt. Lbs.	Item & Size or Capacity	Item No.	Stand. Pkge.	Ctn. Wgt. Lbs.
†			Compartment Plate, 9¾"	5101	2 Doz.	16½
102	2 Doz.	19	Dinner Plate, 10"	5102	2 Doz.	16
103	2 Doz.	17	Dinner Plate, 9"	5103	2 Doz.	13
104	2 Doz.	14	Salad Plate, 8"	5104	2 Doz.	10½
105	2 Doz.	9½	Dessert or Sand. Plate, 7"	†		
106	2 Doz.	7½	Bread & Butter Plate, 6"	5106	2 Doz.	6
107	2 Doz.	1½	Butter Chip, 3"	†		
201	2 Doz.	8½	Coffee Cup, 8 oz.	†		
202	2 Doz.	7½	Saucer, 6"	5202	2 Doz.	6½
203	2 Doz.	7	Tea Cup, 6½ oz.	†		
†			Stacking Cup, 7 oz.	5203	2 Doz.	8
204	2 Doz.	6½	Bouillon or Egg Cup, 7 oz.	†		
206	2 Doz.	7½	Cup, 8 oz.	†		
301	2 Doz.	7	Individual Veg. Dish, 5 oz.	5301	2 Doz.	5
302	2 Doz.	9	Dessert Dish, 7 oz.	5302	2 Doz.	6
303	2 Doz.	10½	Soup or Cereal Dish, 10 oz.	†		
304	2 Doz.	11	Nappy or Salad Bowl, 16 oz.	5304	2 Doz.	9
305	2 Doz.	12½	Deep Soup Dish, 15 oz.	†		
306	2 Doz.	9	Nappy or Cereal Bowl, 11 oz.	†		
307	2 Doz.	10½	Soup or Salad Bowl, 16 oz.	†		

BELLE

Item Number	Item & Size or Capacity	Standard Package	Carton Weight
1102	Dinner Plate, 10"	2 Doz.	16 lbs.
1104	Luncheon Plate, 8¾"	2 Doz.	11 lbs.
1105	Dessert or Sandwich Plate, 6½"	2 Doz.	6½ lbs.
1202	Saucer, 6"	2 Doz.	5½ lbs.
1206	Cup, 8 oz.	2 Doz.	6½ lbs.
1303	Dessert Dish, 10 oz.	2 Doz.	6½ lbs.
1307	Soup or Salad Bowl, 12 oz.	2 Doz.	8 lbs.
1308	Soup or Salad Bowl, 20 oz.	2 Doz.	11½ lbs.

PATRICIAN

Patterns

4102	Dinner Plate, 10½"	2 Doz.	19 lbs.
4104	Luncheon Plate, 8¼"	2 Doz.	11 lbs.
4105	Dessert or Sandwich Plate, 6½"	2 Doz.	7 lbs.
4606	Patrician Platter (decorated), 14½"	½ Doz.	11 lbs.
4607	Patrician Platter (decorated), 11"	½ Doz.	4 lbs.

Solid Colors

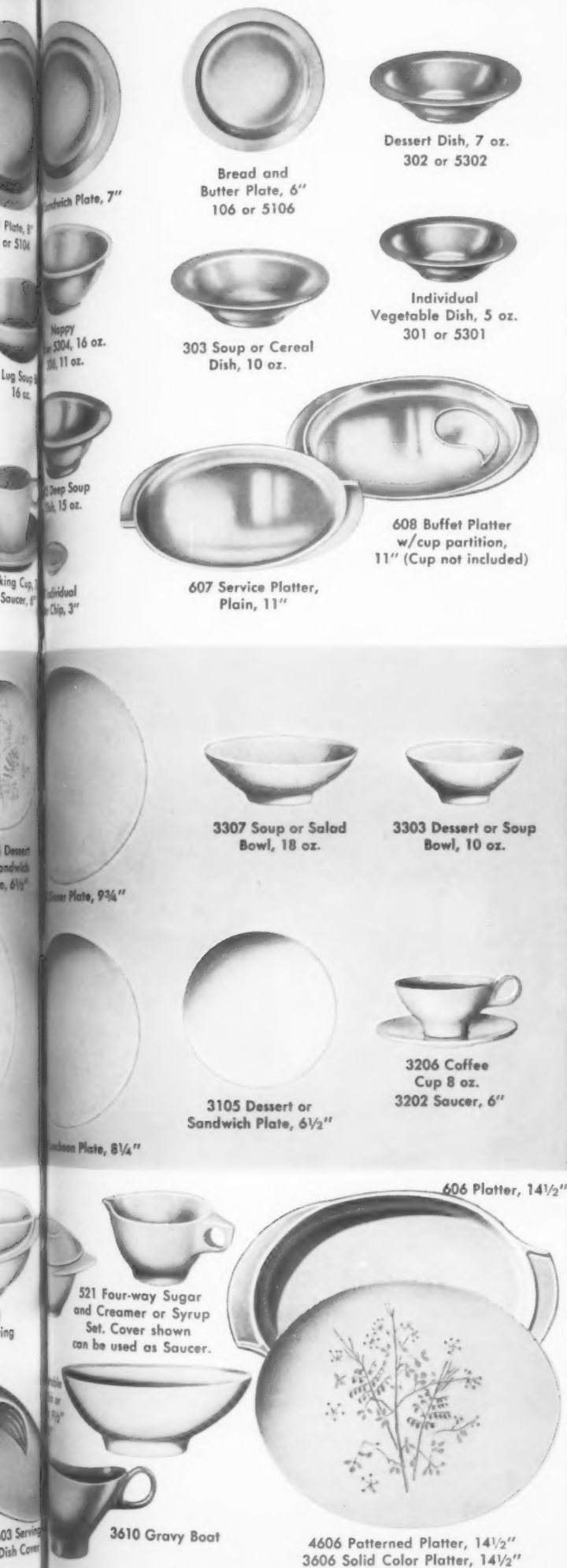
3102	Dinner Plate, 10½"	2 Doz.	19 lbs.
3103	Dinner Plate, 9¾"	2 Doz.	14 lbs.
3104	Luncheon Plate, 8¼"	2 Doz.	11 lbs.
3105	Dessert or Sandwich Plate, 6½"	2 Doz.	7 lbs.
3202	Saucer, 6"	2 Doz.	6 lbs.
3206	Cup, 8 oz.	2 Doz.	6 lbs.
3303	Dessert Dish, 10 oz.	2 Doz.	6½ lbs.
3307	Soup or Salad Bowl, 18 oz.	2 Doz.	10 lbs.

SERVICE PIECES

520	Butter Dish	½ Doz.	4½ lbs.
521	Sugar and Creamer Set	½ Doz.	6 lbs.
522	Salt and Pepper Set	½ Doz.	1½ lbs.
603	Veg. Serving Dish Cover for 604 or 605	½ Doz.	4½ lbs.
604	Veg. Serving Dish or Salad Bowl, 10"	½ Doz.	7 lbs.
605	Divided Vegetable Serving Dish, 10"	½ Doz.	8 lbs.
606	Platter, 14½"	½ Doz.	10½ lbs.
607	Service Platter, 11"	½ Doz.	3½ lbs.
608	Service Platter w/cup partition, 11"	½ Doz.	4 lbs.
609	Bread Dish or Centerpiece	½ Doz.	5½ lbs.
3604	Veg. Serving Dish or Salad Bowl, 9½"	½ Doz.	7½ lbs.
3602	Veg. Serving Dish or Salad Bowl, 8"	½ Doz.	6 lbs.
3521	Sugar and Creamer Set	½ Doz.	6 lbs.
3610	Gravy Boat	½ Doz.	3 lbs.
3606	Patrician Platter (Plain), 14½"	½ Doz.	11 lbs.
3607	Patrician Platter (Plain), 11"	½ Doz.	4 lbs.

†Available in 5000 Series Only.

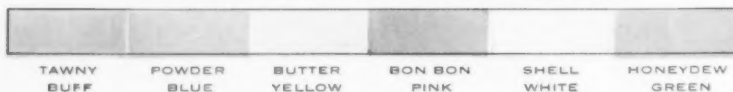
†Available in Regular Deluxe Only.



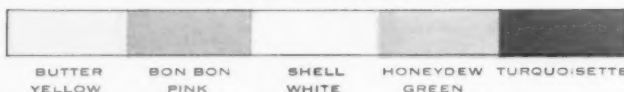
Boontonware®

Food-enhancing Color Assortment

DELUXE AND DELUXE 5000 SERIES



BELLE AND PATRICIAN



Service pieces available in all colors with the exception of platters and bowls in the 3000 and 4000 series, which are not available in Tawny Buff or Powder Blue.

New! Personalized Boontonware!

Now...a brand new service from Boontonware! It's a custom-molding service that personalizes your Boontonware to make it distinctively yours! Your Boontonware can be custom-decorated with your crest, emblem, or other design according to your individual specifications. Contact your dealer for complete information and cost estimates.



Boontonware Belle

The modern, sculptured look on beautiful, carefree Melamine dinnerware. Belle features an appealing square-in-a-circle design that dramatizes every table. Perfect for those who are seeking a refreshing change in dinnerware. And Belle too, is molded with the same special care and skill that are a Boontonware tradition.

Boontonware® deserves different care

It is easy to make the most of Boontonware's benefits by keeping a few simple things in mind.

Boontonware is basically different than china. So it asks for slightly different care. For example: The hot water of any normal washing operation will not bother Boontonware. But spare it from regular boiling or autoclaving.

As might be expected, abrasives like steel wool or scouring powders will ruin Boontonware's smooth, glossy surface.



Boontonware has a certain insulating quality which preserves the serving temperatures of hot or cold foods much longer. That is why there is no need to pre-warm these dishes. This same very desirable quality calls for higher rinse temperatures (180°), lasting a little longer than usual, for air-drying.

After intensive use of Boontonware cups, slight coffee or tea discoloration, as would appear on china or earthenware cups, may be noticed. At the first sign of discoloration, rub cups vigorously with a damp dishcloth sprinkled with a good detergent. Remember, Boontonware cups will be around much longer than ordinary cups. Eventually you may want to enlist the aid of one of the many cleaners* known to be kind to Boontonware's satin surface, such as: DIP-IT (Economics Laboratory, St. Paul, Minn.) and M-E Plastic Cleaner (Maid-Easy Cleansing Products Corp., Mt. Vernon, N. Y.).



Try Boontonware. The savings in breakage are remarkable. Table and tray service take on new appeal because of the beautiful patterns and solid colors which mix or match to perfection. And Boontonware is so easy to handle, so quiet in use. It naturally deserves the best of care.

*These products are mentioned by name simply because of direct knowledge of their performance. There are and will be many others equally good or better.

BOONTON MOLDING CO.
BOONTON, N. J.

CHF

SCHOOL EQUIPMENT

YOU CAN HAVE YOUR
School Colors
IN LIFETIME
PORCELAIN ENAMEL

No. 924-254: Four-prong base designed to give maximum foot room. In addition to 20 colors of porcelain enamel on cast iron, column is also available in steel finished in chrome or bronze plate. Choice of bases.

20 COLORS
Solid Bronze, Chrome
or Aluminum

Exclusive with "CHF"! 20 colors on both base and column make hundreds of school color combinations possible. So easy to maintain and so colorful, "CHF" lifetime porcelain enamel is universally popular for use in school cafeterias, lunch rooms, etc. "CHF" Cast Construction assures long, trouble-free service under most rugged use.

34 different types of Table Bases⁹ in various sizes, metals, and finishes. Tops in a wide selection of Edge Grain Maple, Formica, or Stainless Steel.



No. 926-254: Popular square base with 4" cast iron column in 20 colors of porcelain enamel. Column is also available in chrome or bronze plate.

No. 912A-254: Four-prong style cast construction base; 20 porcelain enamel colors. Column is 3" tubular steel in chrome or bronze plate.

No. 919 1/2-254 1/2: Two-pedestal base to take oblong tables of greater length. Bases and columns are available in 20 colors of porcelain enamel, plus cast solid bronze and cast anodized aluminum.



SOLID BRONZE

For the very finest, choose the warm glow of cast solid bronze.

No. 876-848-875: Stool—Handsome modern design with matching or contrasting upholstery. Other stools and tables made in bronze.

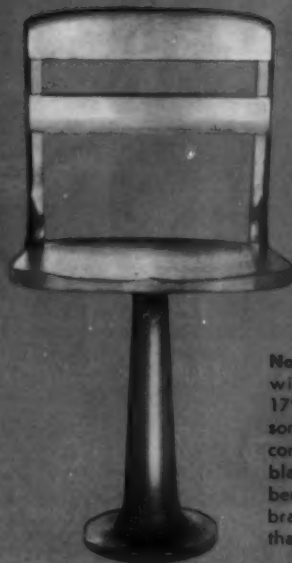
Available Since 1897"

DISTRIBUTORS IN ALL PRINCIPAL CITIES

THE CHICAGO HARDWARE FOUNDRY COMPANY

6157 Commonwealth Avenue • North Chicago, Illinois

SWIVEL SEAT CHAIRS *for Auditoriums, Lecture Rooms, Conference, Class and Assembly Rooms*



No. 411-G-7L-50A: An armless swivel seat for use with fixed tables or alone, as desired. Seat is 17" high, saddle type, 14" deep, 16" wide, hand-somely finished in natural birch. Base is cast construction for rugged dependability, finished in black japan. Back rest is also natural birch steam bent to body contours for greater comfort. Back braces are die formed steel. A comfortable seat that will last a lifetime. Packed weight, 32 lbs.

Type "C" Floor Attachment with expansion shell and hanger screw used in concrete floor. Attachments for other type floors are available. Specify type of floor when ordering.

Setscrew with lock nut allows grooved tripod column to swivel or can be locked in one position. Seat cannot be removed in either position.

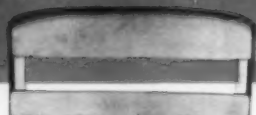
The Chicago Hardware Foundry Co.'s Swivel Seat Chairs fasten permanently to any floor. They do away with the noise and confusion of loose chairs and make cleaning and maintenance much easier and quicker. Cast construction means a lifetime of trouble-free service even under hardest use, in school assembly, class, or lecture rooms. They are ideally fitted, too, for conference rooms. The central column support, instead of legs, also gives added foot room with less fatigue. Grooved tripod allows seat to revolve but cannot be removed without loosening setscrew.



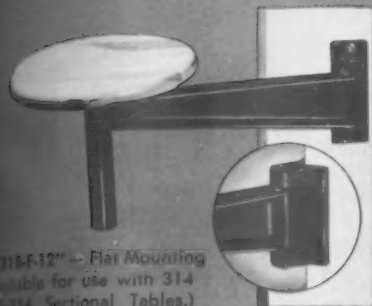
No. 411-G-7L-153: Tablet arm chair for use without tables. Arm is ample 10½" x 22½" to provide comfortable writing space without crowding. Seat, tablet arm, and back rest are in finest natural finish birch. Strong steel arm support and back plus cast construction base means greater serviceability that classrooms, assembly rooms, lecture rooms need. Packed weight, 34 lbs. Also used in industrial plants in coffee break rooms, recreation rooms, etc.

STEEL BOOK RACK — designed for this chair (not illustrated) 16-gauge steel, 11" long, 4½" deep, and 5½" high — can be supplied at additional cost.

Lecture room at Washburn University in Topeka, Kansas. Chairs and tables fastened permanently to the floor provide ample work space in orderly arrangement. All stools, tables and tops by CHF.



SWING ARM and FOLDING SEATS



- No. 318-F-12" — Flat Mounting
(adjustable for use with 314
or 314 Sectional Tables.)
 - No. 318-F-17" — Flat Mounting
 - No. 318-A-12" — Corner Mounting
 - No. 318-A-17" — Corner Mounting
- Specify 12" for Seats without Backs,
17" for Seats with Backs.

ADJUSTABLE SWING ARM SEATS — Particularly suited
in school laboratories and domestic science rooms
where occupants tend to vary considerably in size
and age. Seats without backs available in 13" x 1 1/4"
natural finish hardwood, cast iron in choice of
30 porcelain enamel colors, or in anodized aluminum.
The cast iron brackets are in black japan finish.

Installation of "CHF"
Swing Arm Seats in the
Laboratory of Archbishop
Hoban High School, Ak-
ron, Ohio. Laboratory
furniture by Metalab
Equipment Company.



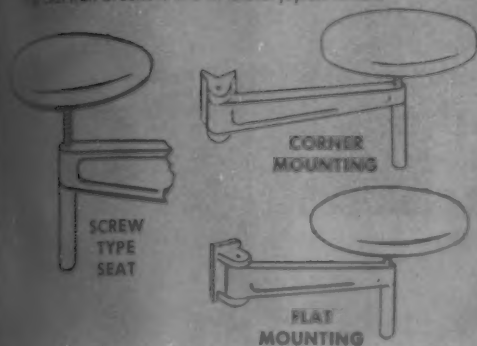
FOR ELEVATORS, COUNTERS, ASSEMBLY TABLES, WORK BENCHES AND SCHOOL LABORATORIES

PROVIDE COMFORTABLE SEATING . . . Save Space and Maintenance

Wherever people must be on their feet for long periods—particularly
women employees, students in laboratories or domestic science rooms—
"CHF" Swing Arm or Folding seats are needed. "CHF" seats swing or
fold out of the way when not in use—eliminate noise and confusion of
loose chairs . . . save aisle space . . . make cleaning easier and less
expensive by saving time.

A sturdily constructed folding seat that swings
up out of the way when not in use. Floor
mounting is positioned so that seat takes virtu-
ally no space when occupied. Shaped seat is
comfortably upholstered in Duran plastic. Seat
base and mounting bracket are lifetime cast
construction, black japan finish. Base is 20";
seat is 2"x9"x11". Weight: 17 pounds.

No. 407-A FOLDING SEAT



are available. Specify type of floor when ordering. Setscrew with lock nut allows grooved tripod column to swivel or can be locked in one position. Seat cannot be removed in either position.

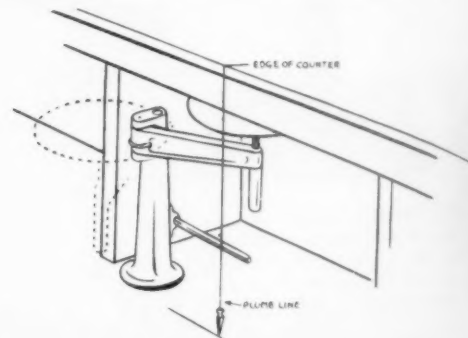
Lecture room at Washburn University in Topeka, Kansas. Chairs and tables fastened permanently to the floor provide ample work space in orderly arrangement. All stools, tables and tops by CHF.



NO. 403-ADJ.-50-A (Left) 18" adjustable to 20" — No. 40 brown, Sanite base, with type "C" floor attachment. Hardwood natural finished seat.



NO. 100 PEDESTAL SWING ARM SEAT: This new seat, of highly functional design is for use where wall or corner mounting is impractical. "CHF" cast construction assures utmost in trouble-free service. Pedestal mounts under counter or workbench to give maximum room, and allows seat to swing completely out of aisle. Seat is easily adjustable 6" up or down to accommodate people of varying sizes. Footrest is also adjustable 6" or may be removed completely. Comfort design seat is 14" in diameter and 2" foam rubber cushion under long wearing plastic upholstery, in choice of decorator colors.



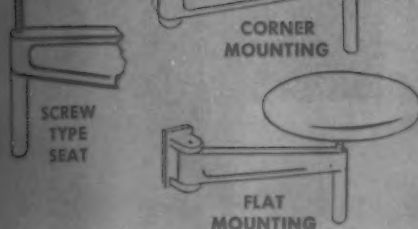
FOR: ASSEMBLY LINES, WORKBENCHES, BANKS, SAVINGS AND LOAN INSTITUTIONS, INSURANCE OFFICES, CURRENCY EXCHANGES, COLLECTION OFFICES, ORDER DEPTS.

Kellogg Co. plant, Battle Creek, Michigan. World's largest manufacturer of ready-to-eat cereals.



**INDUSTRIAL or INSTITUTIONAL
SECTIONAL**





base and mounting bracket are lifetime cast construction, black japan finish. Base is 20"; seat is 2"x9"x11". Weight: 17 pounds.

No. 407-A FOLDING SEAT



No. 413 Seat

Double hinged arm provides variation in distance from work table. Projects 18" with seat. Cast construction, flat black finish. Seat is 13" x 1 1/4" and is available in hardwood, natural finish; cast iron finished in your choice of 18 porcelain enamel colors; upholstered; or polished cast anodized aluminum. Shipping weight, 12 lbs.



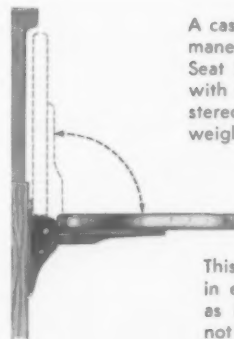
No. 412 Seat

Cast construction, single hinge seat. Projects 15" with seat. Swing arm is flat black finish. Seat is 13" x 1 1/4" in choice of hardwood, natural finish; cast iron finished in choice of porcelain enamel colors; upholstered; or polished cast anodized aluminum. Shipping weight, 10 lbs.



No. S-315 Seat

Cast construction swing arm seat with double cast iron hinge to give years of service. Projects 21" with seat. Flat black finish. Seat is 13" x 1 1/4" and can be ordered in hardwood, natural finish; cast iron, porcelain enamel colors; upholstered; or polished cast anodized aluminum. Shipping weight, 14 lbs.

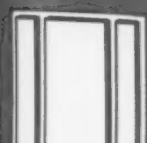


No. 410 Stool

A cast iron folding stool that attaches permanently to the floor. Flat black finish. Seat is 10" x 7/8" available in hardwood with walnut or mahogany finish or upholstered in choice of materials. Shipping weight, 11 lbs.

No. 409 Seat

This seat is particularly adapted for use in elevators or in other close quarters as it folds up out of the way when not in use. Cast iron bracket in flat black finish. Seat is 10" x 7/8", available in hardwood with walnut or mahogany finish or upholstered in choice of materials. Shipping weight, 5 lbs.



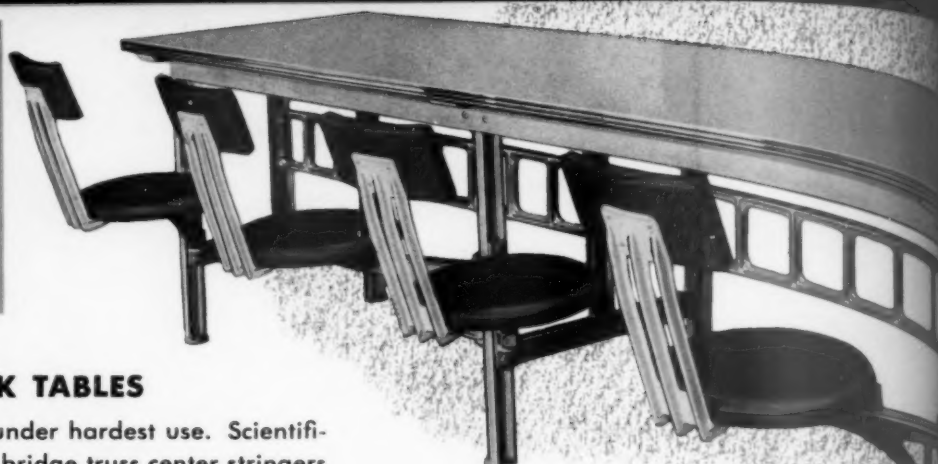
PORTABLE FOLD-A-WAY
TABLES WITH BENCHES
(7-3)

E-1/16

INDUSTRIAL or INSTITUTIONAL SECTIONAL TABLES

for DINING ROOMS,
RECREATION ROOMS, WORK TABLES

Built to give a lifetime of service under hardest use. Scientifically engineered channel legs and bridge truss center stringers give necessary strength without bulkiness. Stronger reinforced swing seats are attached to table and give maximum seating capacity in limited space . . . save aisle space . . . eliminate noise and confusion of loose chairs. Variety of colorful tops and wide choice of enamel paint finishes. These tables may be specified in varying lengths to meet your requirements.



314-287 (shown above)—Standard construction except has upholstered seats and backs for maximum comfort. Back support is in porcelain enamel in color, to match base.



314 and S-314 — Standard sectional tables with seating capacity of 4 to 24 people. Shown here with stainless steel tops. The No. S-314 gives same seating capacity as No. 314, but in slightly smaller space.

TOPS — Choice of 1 1/4" any standard linen finish mica; or 1 1/2" edge grain maple; or 14 ga. type 302-18-8 satin finish stainless steel; sides are 1 1/4" rolled edge, bullnose corners; underside sound deadened.

EDGES — Can be ordered in same material as the top, stainless steel, aluminum or bronze, except edge grain maple which requires no edge.

FRAMES — Cast iron construction with all metal parts finished in standard gray, green, black or brown.

SEATS — NOW YOU CAN GET LIFETIME SEATS IN CAST ANODIZED ALUMINUM OR CAST IRON PORCELAIN ENAMEL. Built to take the hardest use without repair or upkeep. Also available in hardwood natural finish.

BRACES — Extension braces are available for installations on tile, terrazzo or composition floors when it is undesirable to bolt tables to the floor.

NEW! Sani-Dri No. 12 ELECTRIC HAND and HAIR DRYER

Saves All Towel Costs — Eliminates Washroom Litter!

New Sani-Dri No. 12 outmodes all other forms of drying in any washroom, public or private. Towel costs are completely eliminated, and maintenance overhead is reduced 85% . . . with sanitation vastly improved. No fire hazard of waste containers, no towel clogged plumbing . . . no more mess and clutter of towel equipped washrooms.

ONLY SANI-DRI OFFERS THIS COMPLETE LINE WITH ONE STANDARD MACHINE

No. 12-5: Hand Dryer—Faster drying . . . automatic . . . flush wall mount . . . lifetime porcelain enamel finish.

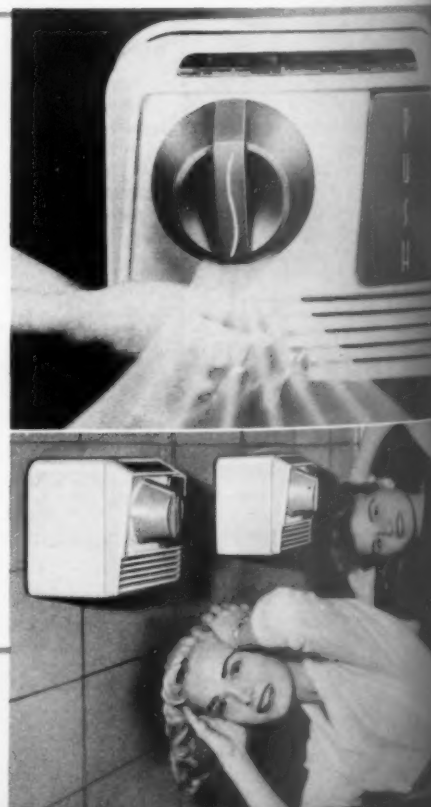
Hair Dryer—A simple adjustment converts this machine into a hair dryer. For swimming pools, shower rooms, etc. . . . helps prevent colds.

PEDESTAL MOUNT FOR 2 DRYERS

No. 12-7: Pedestal — Use in central areas where wall mounting is impractical. Finished in porcelain enamel to match Sani-Dri machines. Mounts two No. 12-5 machines back-to-back.

No. 12-6: Hand Dryer—semi-recessed for new construction. All the wiring is concealed. Takes less space.

Hair Dryer—A simple adjustment converts this machine into a hair dryer. For swimming pools, shower rooms, etc. . . . helps prevent colds.



"Dependable Since 1897"

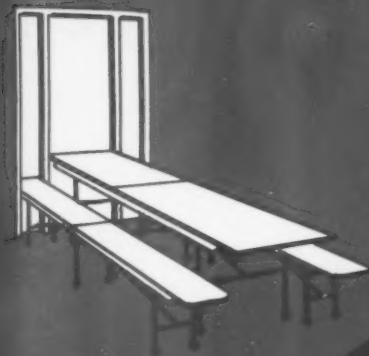
DISTRIBUTORS IN ALL PRINCIPAL CITIES

THE CHICAGO HARDWARE FOUNDRY CO.

LITHO IN U. S. A.

6157 Commonwealth Ave. • North Chicago, Ill.

FORM NO. 1154
5M 8-57



WALL TABLES WITH BENCHES
ON WALL OR IN-WALL CABINETS
(T-4)



PORTABLE FOLD-A-WAY
TABLES WITH BENCHES
(T-2)

E-1/Ha

FOLD-A-WAY

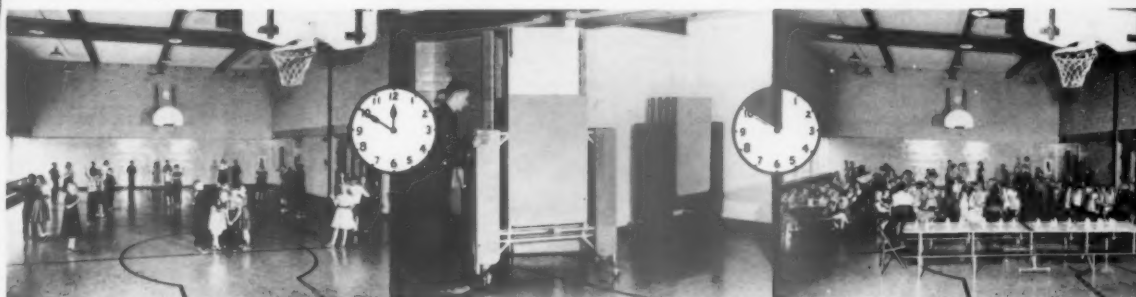
Erickson

PORTABLE PRODUCTS

for Multiple Use of Space

- ★ Wheel quickly to any room
- ★ Set-up or Fold-A-Way in seconds
- ★ Store in amazingly little space

Example—



One man converts gym to lunchroom in just 10 minutes

This Multi-Purpose Room in the new Falcon Heights, Minnesota, elementary school serves as lunchroom, auditorium and gymnasium. Its busiest time is the noon lunch period. Changeover from Phy. Ed. class to lunchroom takes 10 minutes. Eight Erickson Portable Fold-A-Way tables with benches are set up to seat 192 pupils at one time. Over 300 pupils are fed during the period. Dan Forsyth, custodian, makes the changeover without help except for clearing and washing the Formica table tops.

Case History courtesy of: Superintendent Emmett Williams; Principal B. M. Nelson; Architects Magney, Tusler & Setter.

Manufactured by

HALDEMAN-HOMME MFG. CO.

2580 University Avenue, St. Paul 14, Minnesota

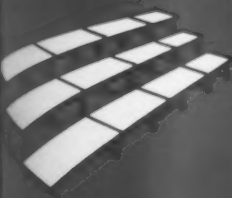
Midway 5-6465



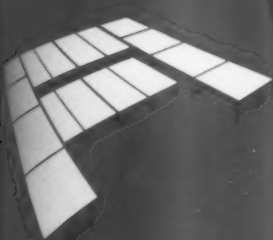
FOLD-A-WAY TABLES
WITHOUT BENCHES
(T-3)



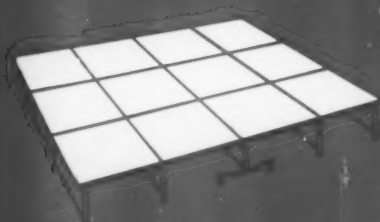
"SECOND"
FOLD-A-WAY PORTABLE
TABLES
(T-1)



FOLD-A-WAY
TABLES WITH
BENCHES
(T-2)



FOLD-A-WAY
TABLES WITH
BENCHES
(T-2)



PORTABLE FOLD-A-WAY STAGES
(S-1)

PORTABLES WITH BENCHES

with automatic hydraulic action

USES

SCHOOLS—Convert a Gym, Classroom or Corridor into a lunchroom in minutes. A complete 14 ft. table seating 24 students sets up in seconds.

INDUSTRIAL PLANTS—Ideal where cafeteria and lunchroom space is limited. Fast conversion keeps labor costs way down.

OTHER INSTITUTIONS—Churches, Lodges, Clubs, Public Institutions achieve dual use of space at great savings in space and labor.

ADVANTAGES

FULLY PORTABLE—Tables wheel anywhere on their own rubber-tired casters. No carrying problems. No marring of floors. **EASY TO USE**—In one simple operation the patented Fold-A-Way understructure unfolds automatically.

RUGGEDLY BUILT—Will withstand years of hardest use. Tables are solid; will not wobble or creep.

BONUS USES—Schools report they're using Fold-A-Way tables for craft classes, study halls, conferences, etc.

MINIMUM STORAGE—Ten Fold-A-Way tables with seating capacity for 240 students store in only 4½ x 10 ft.

ECONOMY—Cost is comparable to ordinary tables and chairs.



Dimensions

Model	Length	Width	Table Top Width	Height Folded	Top Height Unfolded
1429-B	14'	52"	30"	69"	29"
1427-B	14'	52"	30"	69"	27"
1229-B	12'	52"	30"	63"	29"
1227-B	12'	52"	30"	63"	27"

CONSTRUCTION—Tops and benches are ¾" plywood covered with plastic laminate. Edges protected and sealed with "T" type flush plastic molding. Underside of tops and benches sealed with plastic laminate balancing sheet. Understructure is 1½" square formed steel tubing, with beautiful, durable Zinc Irydite plating. Folded unit wheels on 4 casters.

PORTABLES WITHOUT BENCHES

with automatic hydraulic action

USES

SCHOOLS—Convert any available area into lunchroom in minutes; permitting use of separate benches, chairs or stools.

CHURCHES—Convert basement or activities room into banquet hall or Sunday School class, quickly, with minimum of effort.

HOTELS, CLUBS, BALLROOMS—Provide extra tables when needed.

BANKS, OFFICES, STORES—Provide extra working tables or display counters when necessary.

ADVANTAGES

FAST OPERATING—One man or woman can set-up or fold-away a full-sized 14 ft. table in only 15 seconds.

EASY TO SET UP—In one simple operation the patented understructure folds or unfolds automatically.

FULLY PORTABLE—No dollies or trucks needed. Tables wheel to anywhere on their own rubber-tired casters.

RUGGEDLY BUILT—Will withstand years of hardest use. Tables will not wobble or creep when set up.

MINIMUM STORAGE—Ten 14 ft. tables store in only 3½ x 10 ft.

ECONOMY—Cost is moderate and is offset in a short time by the great savings in labor and storage space.



Dimensions

Model	Length	Unfolded Width	Height Folded
1429	14'	30"	65"
1427	14'	30"	65"
1229	12'	30"	59"
1227	12'	30"	59"

CONSTRUCTION—Tops are ¾" plywood covered with tan line plastic laminate. Edges protected and sealed with "T" type flush plastic molding. Also available is a gray "desk top" laminate. Underside of top sealed with plastic laminate balancing sheet. Understructure is 1½" square formed steel tubing, with beautiful, durable Zinc Irydite plating. Folded table wheels-a-way on 4 rubber-tired ball bearing casters.

'3-SECOND' BANQUET TABLES

USES

SCHOOLS—Convert any area into a multi-purpose area. Gym becomes banquet hall or lunchroom in minutes.

CHURCHES, INSTITUTIONS—Provide maximum table capacity with minimum of set-up time and labor.

HOTELS, RESTAURANTS, FACTORIES—Convert single-purpose space into cafeterias, dining rooms when needed. Save storage space, save set-up labor costs.

ADVANTAGES

FULLY PORTABLE—Tables wheel anywhere, giving mobility never before known in the banquet table field.

EASY OPERATING—So simple even a youngster can fold or unfold in 3 seconds.

POSITIVE STABILITY—Table locks in either folded or unfolded position. Brake prevents creeping when in use.

MINIMUM STORAGE—Tables fold and store together compactly.

VERSATILITY—Both round and rectangular tables available. Various combinations give most effective use of space.

ECONOMY—Cost of Fold-A-Way banquet tables is comparable to ordinary banquet tables.



Dimensions

Model	Length	Width Unfolded	Height Unfolded
296	6'	30"	29"
298	8'	30"	29"
2910	10'	30"	29"

CONSTRUCTION—Tops are ¾" plywood covered with gray plastic laminate. Edges are protected and sealed with "T" type flush plastic molding. Underside of top is sealed with plastic balancing sheet. Understructure is 1½" square formed steel tubing finished with beautiful, durable Zinc Irydite plating. Folded table wheels-a-way on 4 rubber-tired ball bearing casters.

PORTABLE STAGES

SCHOOLS—Fold-A-Way Portable stages set up quickly in gym or classrooms to handle class plays, speech classes, graduation or class photos. Units combine to form stage of any size.

CLUBS, RESTAURANTS, FACTORIES—Provide multiple use of space. Convert any available area into theater or auditorium.

STORES, INSTITUTIONS—Provide a fast set-up stage for all functions, yet store in amazingly little space when not in use.

ADVANTAGES

FULLY PORTABLE—Each individual stage folds-a-way in 15 seconds and wheels-a-way on its own rubber-tired casters.

HIGHLY VERSATILE—Units interlock to form any size stage desired. Available are units 4 ft. wide in 10 or 12 ft. lengths and in 8", 16" or 24" heights.

RUGGEDLY CONSTRUCTED—Fold-A-Way Portable stages are built to take heavy punishment for years without trouble.

MINIMUM STORAGE—Stages store in little space. A 12 by 12 ft. stage (3 units) stores in only 4½ by 5 ft.

ECONOMY—Cost is moderate and is offset in a short time by great savings in time, labor and storage space.



Dimensions

Model	Length	Width	Height Unfolded
PS10-8	10'	4'	8"
PS10-16	10'	4'	16"
PS10-24	10'	4'	24"
PS12-8	12'	4'	8"
PS12-16	12'	4'	16"
PS12-24	12'	4'	24"

CONSTRUCTION — Platforms are 1½" 9-ply plywood finished with gray speckleton finish. Fast-acting safety clamps are provided for interlocking of units in any combination. Understructure is 1½" square formed steel tubing with 3 coats of tan Hammerloid baked enamel. Folded unit wheels-a-way on 4 rubber-tired ball bearing casters.

BAND STANDS

USES

SCHOOLS—Fold-A-Way Portable band stand units set up and interlock to form any sized band stand. Convert a gym into a concert hall in minutes.

AUDITORIUMS, CONCERT HALLS, THEATERS—Provide stands for any group—small combos to symphony orchestras.

CLUBS, HOTELS, INSTITUTIONS—Fold-A-Way Portable band stands enable multiple use of space; store-a-way in little space.

ADVANTAGES

FULLY PORTABLE—Each unit folds or unfolds in only 15 seconds; wheels-a-way on its own rubber-tired casters.

HIGHLY VERSATILE—Units are 4 ft. wide, 10 or 12 ft. long, are available in rises of 8", 16" and 24". Write for free plans showing units interlocked in many different arrangements.

RUGGED CONSTRUCTION—Fold-A-Way units are built to withstand years of punishment without giving trouble.

MINIMUM STORAGE—A complete 12 ft. (3 units) band stand stores in only 4½ by 5 ft.

ECONOMY—Original cost is moderate and is offset in a short time by great savings in labor and storage space.



Dimensions

Model	Length	Width	Height Unfolded
SB10-8	10'	4'	8"
SB10-16	10'	4'	16"
SB10-24	10'	4'	24"
SB12-8	12'	4'	8"
SB12-16	12'	4'	16"
SB12-24	12'	4'	24"

CONSTRUCTION — Platforms are 1½" 9-ply plywood finished with gray speckleton finish. Fast-acting safety clamps are provided for interlocking of units in many combinations. Understructure is 1½" square formed steel tubing with 3 coats of tan Hammerloid baked enamel. Folded units wheel-a-way on 4 rubber-tired ball bearing casters.

CHORAL RISERS

[seated or standing]

USES

SCHOOLS—Portable Fold-A-Way choral risers set up quickly in classrooms, gyms, auditoriums . . . for choir practice, concerts, class photos, or as bleachers.

BROADCASTING, THEATERS, CLUBS—Ideal in limited space. Riser handling up to 40 people folds-a-way to 1 ft. length.

CHURCHES, INSTITUTIONS—Provide multiple use of space at great savings in labor and storage space.

ADVANTAGES

SEATED OR STANDING—Two types available: standing, with platforms 16" deep; and seated, with platforms 32" deep.

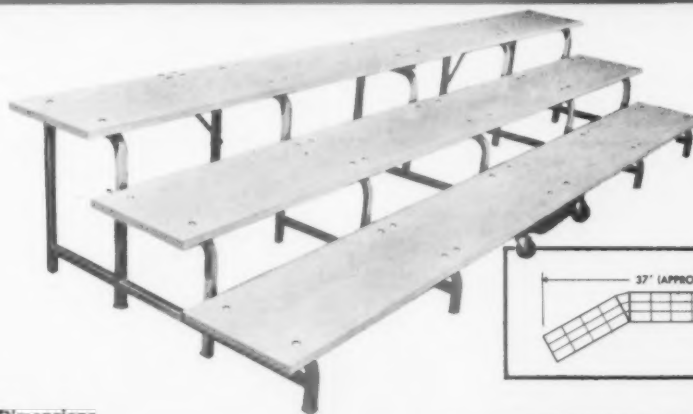
FULLY PORTABLE—Folds-a-way in 15 seconds and wheels-a-way on own rubber-tired ball bearing casters.

HIGHLY VERSATILE—"Instant Inserts" (diagram at right) permit semi-circular arrangements and extra capacity.

RUGGED CONSTRUCTION—Built to withstand years of punishment.

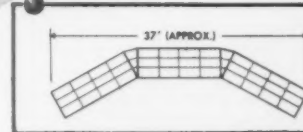
MINIMUM STORAGE—Three units handling up to 120 people fold-a-way and nest in only 3½ by 4 ft.

ECONOMY—Cost is moderate and is offset in a short time with great savings in labor and storage space.



Dimensions

Model	Length	Width	Platform Depth	Rise Per Platform
S-10	10'	4'	16"	8"
S-12	12'	4'	16"	8"
SC-10 (2 units)	10'	8'	32"	8"
SC-12 (2 units)	12'	8'	32"	8"



CONSTRUCTION — Platforms are 1½" 9-ply plywood finished with gray speckleton finish. Understructure is 1½" square formed steel tubing with 3 coats of tan Hammerloid baked enamel. Folded unit wheels-a-way on 4 rubber-tired ball bearing casters.

WALL TABLES WITH BENCHES

USES

Ideal for gymnasium and multi-use rooms where separate storage areas are unavailable. Tables and benches store-a-way in their own cabinets. Cabinets may be recess mounted in the wall to give you maximum floor area; or when wall construction prevents recessing they may be mounted on the wall.

ADVANTAGES

14' table with benches gives comfortable seating-for-eating for up to 24 youngsters. Tables and benches may be readily detached from the cabinet and used for several different functions. Tables with separate folding chairs are ideal for adults. The benches may be used separately for auxiliary bleacher seating, audio-visual classes, etc.

CONSTRUCTION — Both benches and tops are covered with high pressure Melamine plastic with edges protected by plastic T molding. Plastic table tops are available in turquoise plaid, yellow plaid or bleached birch (other colors and patterns on special order). Benches are hand-some gray plaid. Finest grade plywood in tops and benches has balancing sheet underneath. Legs are 1" 16-gauge steel tubing with beautiful durable Zinc Irydite plating.



Cabinets mounted in the wall



Cabinets mounted on the wall



Table features automatic hydraulic action!



Key opens cabinet. No holes in table tops or bench tops. Tables and benches lock automatically when closed.



Both benches and table tops have plastic surface and plastic T-molding on edges.

Specifications

I. ERICKSON TABLES as manufactured by Haldeman-Homme Mfg. Co., St. Paul 14, Minnesota.

Table tops of Portable with Benches (or Portable without Benches, or Banquet Table, or Wall Table) shall be finest grade 3/4" plywood with 1/16" Melamine Plastic (NEMA standard) Laminate in choice of bleached birch, turquoise plaid or yellow plaid bonded to surface with plastic balancing sheet laminated to underside. Edges to be protected with flush plastic T-molding with no exposed fastenings.

(Include also A, B, C or D)

- A. **PORTABLE WITH BENCHES** shall be 14' (or 12') long and 29" (or 27") high. Benches to have same construction of plastic surface, 3/4" plywood, balancing sheet and molding as tops. Standard bench color shall be gray plaid (other colors and patterns on special order). Understructure shall have 5 complete leg sections of 1 1/2" square formed steel tubing Zinc Irydite plated. Leg sections shall be constructed so as to allow walk in . . . walk out accessibility, making stepping over benches unnecessary. Chassis shall be equipped with 4 rubber tired ball bearing casters. Table with Benches shall operate with hydraulic cylinders controlling the unfolding of the table automatically.
- B. **PORTABLES WITHOUT BENCHES** shall be 14' (or 12') long and 29" (or 27") high. Understructure shall have 5 complete leg sections of 1 1/2" square formed steel tubing Zinc Irydite plated. Chassis shall be equipped with 4 rubber tired ball bearing casters. Table shall operate with hydraulic cylinders controlling the unfolding of the table automatically. (Table also available without automatic action.)
- C. **BANQUET TABLES** shall be 6' (or 8' or 10') long and 29" high. Table shall fold in two sections with positive locking action in folded and unfolded positions and shall be equipped with 4 swivel casters, two to have locking feature.
- D. **WALL TABLES** shall be Model RW (or Model OW). Specify Model from above chart. Table top and two benches shall have their own steel cabinet to be of 16 gauge construction complete with strap anchors welded to each side of the cabinet. For recess-wall installations make openings

approximately 3/4" wider at top and sides and 1/2" more in depth than actual cabinet measurements. Note: where cabinets are to be masoned in construction lintel shall be supplied by others across top of opening.

Tables shall be equipped with hydraulic cylinder for automatic opening. Benches shall have same construction of plastic surface, 3/4" plywood, balancing sheet and molding as top. Bench color shall be gray plaid (other colors and patterns on special order.)

Understructure shall be of 1" 16-gauge steel tubing electrically welded and with Zinc Irydite plating. Cabinet shall have prime coat applied at factory.

II. ERICKSON STANDS as manufactured by Haldeman-Homme Mfg. Co., St. Paul 14, Minnesota.

Platform shall be of 1 1/4" 9-ply plywood with gray speckleton finish. Understructure shall be 1 1/2" square steel tubing of formed construction with baked enamel finish. Units shall fold in 4 sections, be mounted on chassis having 4 rubber tired ball bearing casters. Units shall lock in folded position.

(Include also A, B, C or D)

- A. **STANDING CHORAL RISERS** shall be 10' (or 12') long, be 4' wide with each of 3 platforms 16" deep. Rise per platform shall be 8".
- B. **SEATED CHORAL RISERS** shall be two matched units, each unit 10' (or 12') long and 4' wide. Each unit shall have 2 platforms, one 32" deep, the other 16" deep. Units shall be equipped with locking device to form one 3-level riser. Rise per level to be 8".
- C. **BAND STANDS** shall be 10' (or 12') long, be 4' wide, and 8" (or 16" or 24") high. Units shall be provided with safety clamps for locking together.
- D. **PORTABLE STAGES** shall be 10' (or 12') long, be 4' wide and 8" (or 16" or 24") high. Units shall be provided with safety clamps for locking together.

GUARANTEE—All parts and materials, including the exclusive automatic hydraulic mechanism, are to be unconditionally guaranteed.

(U. S. Patent 2514319. Other patents pending)

Catalog No. 305

HALDEMAN-HOMME MFG. CO.

2580 University Avenue, St. Paul 14, Minnesota
Midway 5-6465

Manufacturer of

Erickson

FOLD-A-WAY

Portable Products

*Tables with Benches
*Tables without Benches

*Banquet Tables
*Choral Risers

*Band Stands
*Portable Stages

Wall-Fol

folding
tables and
benches

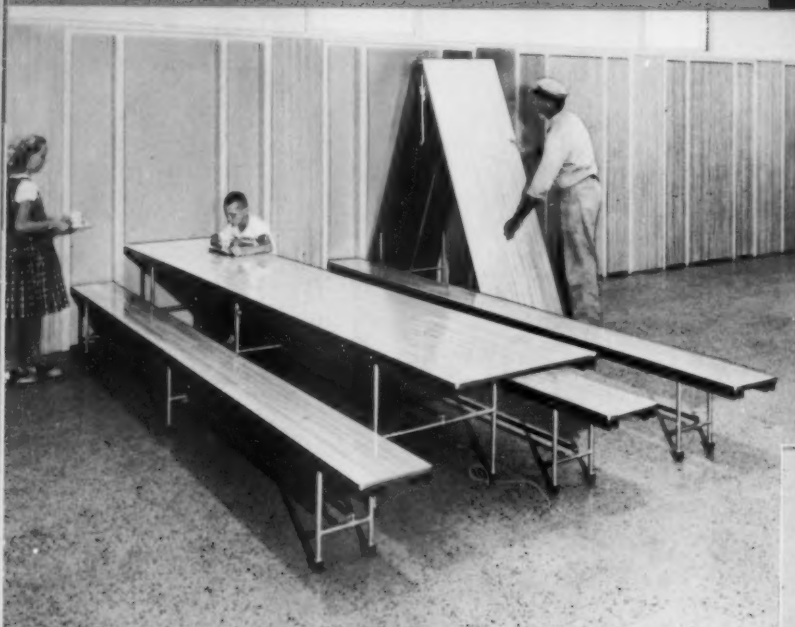
with space-saving
wall storage cabinets...
in-the-wall or on-the-wall

A.I.A. FILE No. 28A-4

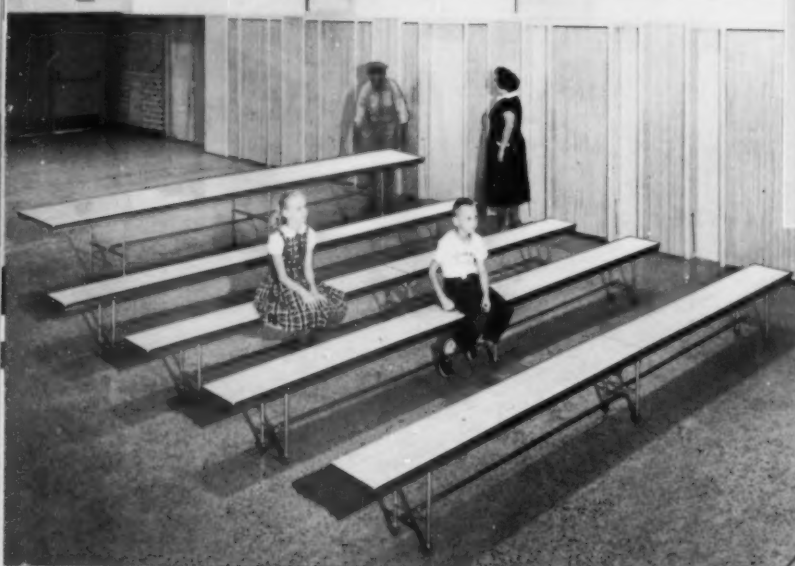


Rol-Fol

ROL-FOL TABLE INC.
Los Angeles 46, California



When in use, Wall-Fol Tables can be locked in position to prevent accidental folding.



Wall-Fol Tables and Benches may be quickly detached from their cabinets and rolled anywhere in the room. Benches may be used for assembly seating.



Out of sight and out of the way when not in use, Wall-Fol leaves the entire area clear for maximum usefulness and easiest maintenance.

Wall-Fol

FOLDING TABLES AND BENCHES

with space-saving wall storage cabinets
for multi-purpose rooms and social halls



Wall-Fol Tables and Benches fold and lock securely into their own attractive wall cabinets. Easily operated by one man.

ATTRACTIVE APPEARANCE: Top surfaces of Wall-Fol Tables and Benches are finished in plastic laminate in a wide variety of colors and patterns. Since tables and benches become part of the wall when folded in the cabinets, Wall-Fol equipment is pleasing to the eye when stored or in use.

RUGGED CONSTRUCTION: Table and bench top panels are securely attached to the sturdy self-supporting and self-standing steel undercarriage . . . won't come loose! Steel legs and hardware are cadmium plated to offer a long wearing protective finish. Cabinets with all-welded construction are of 16-gauge steel.

COMPACT: Steel wall cabinets are only 5 1/2" deep . . . require minimum space when built in the wall or on the wall . . . eliminate the need for extra storage room space.

TIME-SAVING: Fast, easy setup and storage of tables and benches save time and labor . . . make multi-use of rooms truly practical.

LARGE CAPACITY: Strong, durable Wall-Fol Tables and Benches are 14 feet long, seating 20 or more children per set; tables alone for use with folding chairs will comfortably accommodate 16 adults. Tables and benches are available in choice of 6 heights.

FLEXIBLE: Wall-Fol Tables and Benches may be quickly and easily detached from their cabinets and rolled to any desired arrangement. In a few minutes' time, tables can be placed for social functions and banquets.

EIGHT STANDARD CABINET MODELS: Wide variety of models offers the utmost in installation flexibility for mounting in-the-wall or on-the-wall, with and without bench pockets. Double-depth cabinets are available to store two sets, further saving on storage space requirements. Multiple depth cabinets to house more than two sets can be supplied on special order.

MODELS AND DIMENSIONS

All models include cabinets

Recommended spacing of cabinets

for table cabinets: 7'6" center to center (minimum)

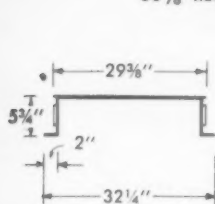
for table and bench cabinets: 6'6" center to center (minimum)

IN-THE-WALL . . . for new construction
Cabinets with flanged edges to overlap finished wall

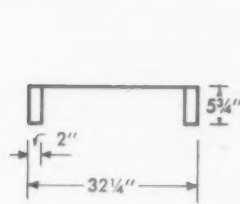
ON-THE-WALL . . . primarily for remodeling
Enclosed mullion cabinet sides and head

MODEL F-10

Make rough opening
30 3/8" x 85 5/8" x 6"

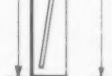
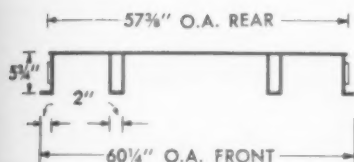


MODEL M-10

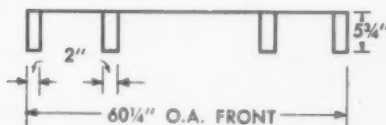


MODEL F-30

Make rough opening
58 3/8" x 85 5/8" x 6"

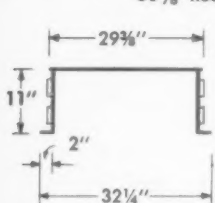


MODEL M-30

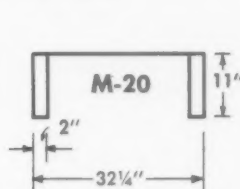


MODEL F-20

Make rough opening
30 3/8" x 85 5/8" x 11 1/4"

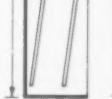
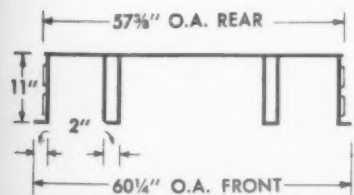


MODEL M-20

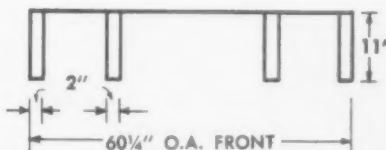


MODEL F-60

Make rough opening
58 3/8" x 85 5/8" x 11 1/4"

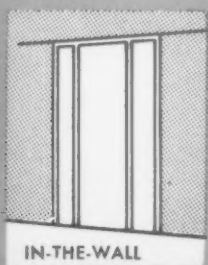


MODEL M-60



Fasten to solid backing . . . through head and sill

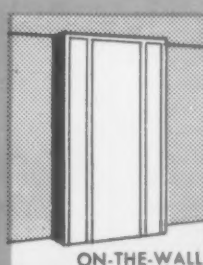
Fasten to solid backing . . . through back and sill



IN-THE-WALL

IN-THE-WALL cabinets are installed in wall recesses or built into the wall during construction.

ON-THE-WALL cabinets, for installation in existing rooms, may be attached directly to the wall surface.



ON-THE-WALL

DOUBLE-DEPTH cabinets are used where wall space is limited. Two table and bench sets are stored in each cabinet. The front set is unlocked from the cabinet and rolled to a desired location. The second set is unfolded and left attached to the cabinet or removed.

ROL-FOL TABLE INC.

DO NOT SCALE THESE DRAWINGS

SPECIFICATIONS

FOLDING TABLE AND BENCH SETS: Furnish two-leaf folding tables and benches 14 feet long complete with steel cabinets, IN-THE-WALL (or ON-THE-WALL) WALL-FOL Model No. (to be selected) as manufactured by ROL-FOL TABLE, INC., 8467 Melrose Place, Los Angeles 46, California. OLIVE 3-2428.

TABLES AND BENCHES: Tables shall be 14' long x 28" wide; benches 14' long x 11 1/2" wide, constructed as follows: The table and bench undercarriage shall be of all-steel construction. Top frames shall consist of 16 gauge cold rolled steel U channel 1 1/2" wide by 1-9/16" deep. Legs and bracing shall be electro-weld, high carbon steel tubing 3/4" O.D. x 1/16" wall thickness. The entire undercarriage shall be one complete unit, self-supporting and self-standing, to which the top shall be securely fastened.

Hardware shall be precision die formed of 3/4" steel. All casters shall be fixed, non-marking, rubber tired.

Each table and bench shall be provided with two manually operated locks and a safety catch lock. Manually operated clamp-locks shall be installed on the center legs of all tables for preventing accidental folding.

The tops of tables and benches shall be constructed of 3/4" hardwood surfaced plywood, 7 ply, or particle board surfaced with a high pressure laminated plastic and plastic backer sheet. The plastic color and pattern shall be chosen by the purchaser from a selected group of FORMICA samples submitted by Rol-Fol Table, Inc. (Non-standard patterns and FORMICA in solid colors available at premium price.)

Edges of tables and benches shall be trimmed with a dent resistant plastic moulding, silver gray color. The moulding shall be applied to make a tight fitting joint with the plastic top surfaces.

The tubular steel undercarriage and all hardware parts shall be cadmium plated. Steel top frames shall be baked enamel, gray Hammertone finish.

TABLE AND BENCH HEIGHTS

To be selected by purchaser.

Standard table heights:

25", 26", 27", 28", 29" and 30".

Standard bench heights:

15", 16", 17", 18", 19" and 20".

Note: 19" and 20" high benches are not recommended for schools.

DETACHABLE AND INTERCHANGEABLE: The extended tables and benches shall be instantly and individually detachable from the cabinet so they can be rolled about for various groupings. Any height table or bench shall operate in any cabinet.

STEEL CABINETS: Wall cabinets to house tables and benches shall be all-welded construction of 16 gauge steel. Cabinet depths shall not be greater than 5 1/2" (11" for Models F-60, M-60, F-20 and M-20). Cabinets shall be factory prime painted. Finish painting after installation shall be done by purchaser.

When steel cabinets are to be built into masonry wall (specify) three strap anchors shall be welded to jambs on each side of cabinet by manufacturer. Angle iron lintels shall be furnished by others.

INSTALLATION: Contractor or purchaser shall provide wall recesses for in-the-wall models, install cabinets and place tables and benches in cabinets. The cabinets are to be set plumb, true and level and anchored according to manufacturer's recommendations. Sales agent shall provide installation drawings and instructions.

NOTE: The manufacturer reserves the right to make material and design changes to further improve the product.

U. S. Patent Numbers 2,650,146 and 2,699,978

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DISTRIBUTED BY ROL-FOL SALES CO.

A division of Rol-Fol Table Inc.

8467 MELROSE PLACE

LOS ANGELES 46, CALIFORNIA

OLIVE 3-2428

Rol-Fol

Manufactured by ROL-FOL TABLE INC.

Los Angeles 46, Calif.

Factory, Van Nuys, California

**FOLDING
TABLES
&
BENCHES**

SINCE 1931

Schieber

**A MODEL FOR
EVERY
APPLICATION
•
THOUSANDS OF
INSTALLATIONS
FROM COAST TO COAST**



**SCHIEBER'S Rugged
Quality Construction
Eliminates Maintenance
Problems
Assures Safe, Easy
Operation and
LONG LIFE**



IN-WALL

THE ONLY ALL-STEEL FOLDING TABLE AND BENCH UNIT FOR SCHOOLS

In-Wall, the all-metal, all-welded folding table and bench unit was originated by Schieber and the first wall pocket model offered to schools. It dates back to 1931 and as testimony to its sound engineering and sturdy, solid construction, is the fact that the first installation, now 26 years old, is still in daily use and has never failed. There are unquestionably more In-Wall units in use today than all other makes and models combined. More than a thousand school architects have specified it and countless school districts have standardized on it. It is fully guaranteed for 10 years.

Accommodates 20 trays.



COMPAC-FOLD

DETACHABLE, WALL POCKET TYPE FOLDING TABLE AND BENCH UNIT

Compac-Fold is a detachable type unit. Tables and benches may be rolled to any position and used separately. One of its chief features is the shallow 5" depth pocket which permits installation of single units in thinner walls such as are often specified in warmer climates. The detachable feature also permits use of multiple depth pockets for storing two or more units where wall space is restricted. Like all Schieber equipment, the Compac-Fold is "over engineered" to provide strength and long life in school use. The stainless steel trim on all edges is "T" type, so tightly secured that it provides a seal and leaves no recesses to collect dirt.

Accommodates 20 trays.

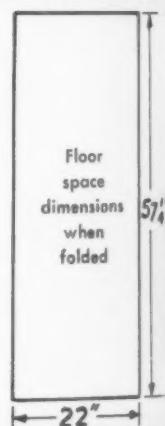


FLEXO-FOLD

NEW 12' PORTABLE WITH BUILT-IN CARRIER

The Flexo-Fold by Schieber is designed to meet the need for a portable folding unit that adapts itself to smaller or cut up areas. While it is lighter than most portables and easier to fold and unfold, it features typical Schieber rugged construction capable of serving in daily school use. One of the important features of the Flexo-Fold is the unitized strutting. The table and two benches of each side fold-up and unfold as a single unit. Preloaded springs assist the operator.

Accommodates 16 trays.



TRANSI-FOLD

PORTABLE, INTEGRAL CARRIER UNIT, 20 AND 16 FOOT MODELS

Schieber's Transi-Fold unit is now available in two models. A 20 foot model has been added which has a seating capacity of up to 30 children. The 16 foot model of 24 children capacity is continued in the line. This unit is so compact and rugged it is widely used in industrial plants for seating adult workers. Table and bench tops are built like Porta-Fold with all surfaces sealed and stainless steel trimmed. The open channel type carrier is all welded and serves as the center "leg." It is equipped with large rubber casters. When folded and rolled against the wall, Transi-Fold protrudes only 22 inches. Because of its compactness and speed with which it is operated, it is often first choice in portable equipment.

IN-WALL specifications

Approximately 14 feet long when extended. Constructed with automatic and manual locks. Flush with face when locked in pockets. **POCKETS** 16 gauge steel. Spaced approximately 6' 6" O.D. In-the-wall pockets approximately 7' 4" high, 4' 9 1/2" wide, 1/4" x 3" facing, 3/16" x 1" x 6" anchors welded to pocket sides, 3" x 3" x 1/4" angle iron lintel welded to pocket top and extending approximately 6" each side, two anchors 3/8" x 1 1/4" extending 2" each side. Against-the-wall pockets approximately 7' 7" high, 5' 2 3/8" wide. Cabinet type with rounded corners and edges. **TABLES** 20 gauge steel welded to 1 1/2" x 1 1/2" x 3/16" angle frames, covered with (1/8") linoleum. Automatically operated hinge leg with oilless bearing rubber wheels secured to outer frame. Strut member secured to the inner frame. **BENCHES** same general construction as tables. Edges of the tables and

benches finished with 3/32" thick stainless steel. Tables available 30", benches 20"; tables 25", benches 15". Pockets to receive one coat red lead before shipment. Finish by purchaser at his expense. Table and bench understructure finish painted by manufacturer. Pockets built into the walls or attached to walls by the purchaser. Table and bench installation by manufacturer.



COMPAC-FOLD specifications

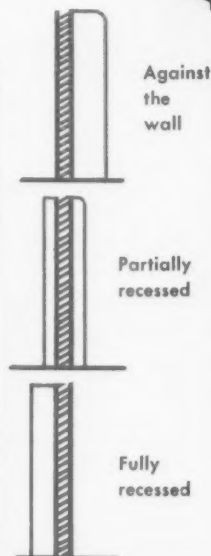
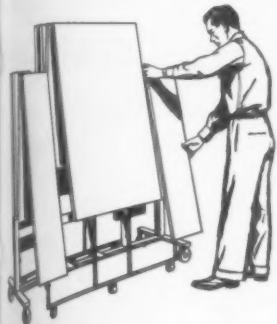
Approximately 14 feet long when extended. Constructed with automatic and manual locks. Flush with face when locked in pockets. **DETACHABLE** from the pocket. **POCKETS** 16 gauge steel spaced approximately 6' 6" O.D. approximately 7' 1 1/4" high, 4' 8 5/8" wide, 5 5/8" deep including stiffening bars, 1/8" x 2" facing, 3/16" x 1" x 4" long anchors welded to pocket sides, two anchor bars 1/4" x 1" extending 2" each side. Against-the-wall pocket approximately 7' 3 3/8" high, 4' 11 1/2" wide. Cabinet type with rounded corners and edges. Double-depth pockets same specifications as above except depth 10 11/16". **TABLES** 3/4" Ph. Mahogany plywood covered with pressure, laminated, heat-resistant plastic, available in 6 colors (specials extra) and backer sheet. Automatically operated hinged tubular legs, 1 1/4" O.D. with 1/8" wall and rubber wheel terminals. Formed stiffening support entire length of table top. **BENCHES** same construction as tables except tubular legs, 2 7/8" O.D. with

1/4" wall. All edges trimmed with stainless steel molding to seal joint between plastic top and core. Table heights 25" to 30" in 1" increments. Benches 15" to 20" in 1" increments. (Table 24" and bench 14" at additional charge). Pockets to receive one coat of red lead before shipment. Finish coat by purchaser at his expense. Understructure painted by manufacturer. Pockets built into or attached to wall by purchaser. Tables and benches installed by manufacturer.



FLEXO-FOLD specifications

Two folding tables and four benches permanently attached to carrier. Carrier constructed of 2" square steel tubing with 1/4" x 2" welded joining members and with four bearing equipped casters, 2 pivoting type. Understructures of tables and benches 2 1/4" O.D. steel tubing. All fixed joints welded. Table top 7 ply, 3/4" Ph. mahogany with plastic backer sheet and surfaced with high pressure, laminated, heat resistant plastic in optional colors. Edges trimmed and sealed with stainless steel molding. Benches 7 ply, 3/4" Ph. mahogany with plastic backer sheets top and bottom. Edges rounded and all surfaces finished with mottled, neutral tone plastic spray, non-absorbent, chip, scratch and wear resistant. Floor space occupied when folded 22' x 57 1/4", when opened 12' x 57 1/4". Optional table and bench heights: 27"/17" and 30"/20". Height of unit when folded: 27" model 61 1/4", 30" model 60". Carrier and understructure painted by manufacturer.



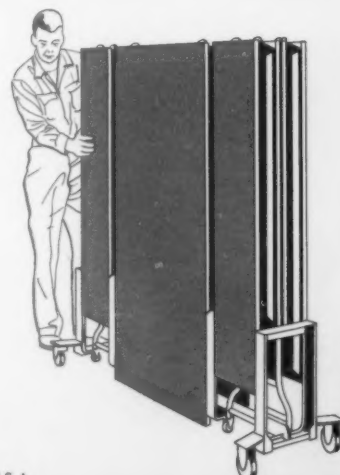
MULTIPLE DEPTH POCKETS

These pockets may be installed in new buildings or in remodeling projects. They are available for two, three and four complete units and are approximately 10", 15" and 20" deep respectively. This type installation is particularly adaptable where wall space is limited.

TRANSI-FOLD specifications

Two tables and four benches permanently attached to carrier. **CARRIER** constructed of channel formed steel equipped with 3 1/4" rubber, oilless bearing casters. Dimensions of carrier: 22" wide, 61" long. 16 foot model 62" high when tables and benches are folded. 20 foot model 74" high when tables and benches are folded. **TABLES** 3/4" Ph. Mahogany plywood covered with high pressure, laminated, heat-resistant plastic in 6 standard colors (specials extra) and backer sheet. Automatically operated hinged legs with rubber wheel terminals. Tubular legs 1 1/4" O.D. with 1/8" wall. Formed stiffening support the entire length of table top. **BENCHES** same construction as tables except tubular

legs, 2 7/8" O.D. with 1/8" wall. All edges trimmed with stainless steel moldings to seal joints between plastic top and core. Table heights 27" and 30"; bench heights 17" and 20". Carrier and understructure of the tables and benches painted by manufacturer.



Note: Understructures of all Schieber units will be painted in special colors if specified. There will be a small additional charge.

Litho in U.S.A.

**FIRST FOLDING
TABLE AND BENCH
INSTALLATION
WEST OF THE
MISSISSIPPI IS
SCHIEBER
EQUIPMENT**



**FIRST FOLDING
TABLE AND BENCH
INSTALLATION
EAST OF THE
MISSISSIPPI IS
SCHIEBER
EQUIPMENT**



LA CANADA, CALIFORNIA

This Schieber In-Wall installation was made in 1947 in LaCanada School as part of a remodeling project. The architect was Mr. H. L. Gogerty, A. I. A. Ten years later, this equipment is still in daily school use and is used evenings for adult education and civic purposes.



DETROIT, MICHIGAN

This Schieber In-Wall installation was the first wall pocket installation ever made in a school. Malcomson, Fowler & Hammond, Inc. were the architects. This equipment is used daily and in its 26 years has never required other than minor maintenance.

Write for tracing details, shop drawings or room layout suggestions.

Schieber puts emphasis on quality. Every Schieber unit, whether wall pocket or portable type is "over engineered" to the extent that it will take the abuse of daily school service for years —we can't tell yet how long you may expect your Schieber folding tables and benches to last because after 26 years we still have no record of a Schieber unit being retired or worn out. We suggest you write for the name of our nearest representative. He will arrange for you to visit a nearby Schieber installation where you can observe it and talk with the users.

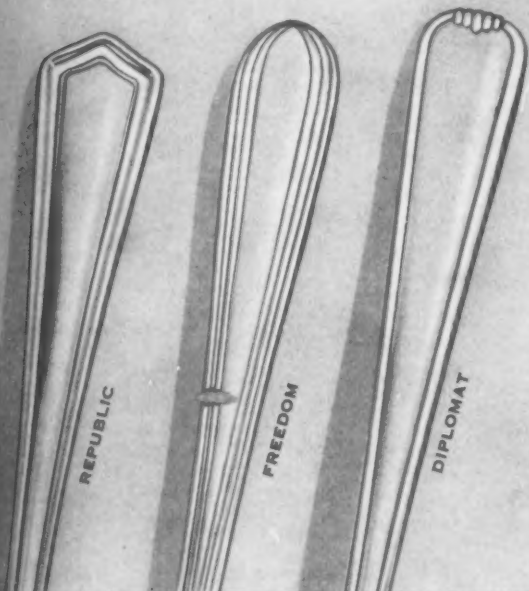
SCHIEBER SALES COMPANY

**12955 INKSTER ROAD
DETROIT 39, MICHIGAN**

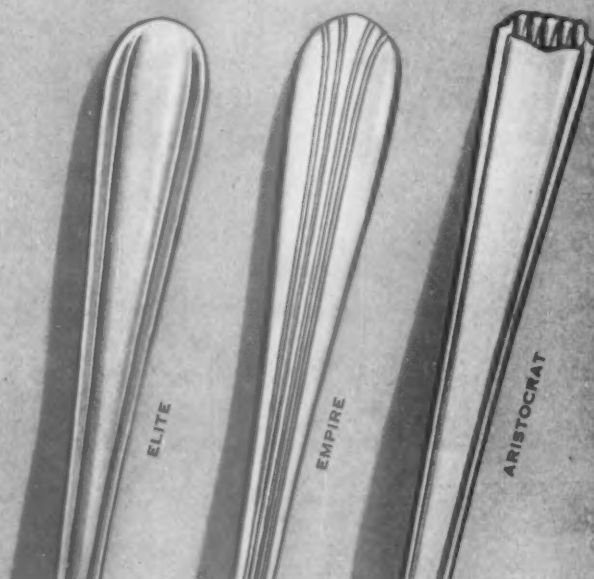
THE INTERNATIONAL SILVER COMPANY E 501

Hotel Division, Meriden, Connecticut

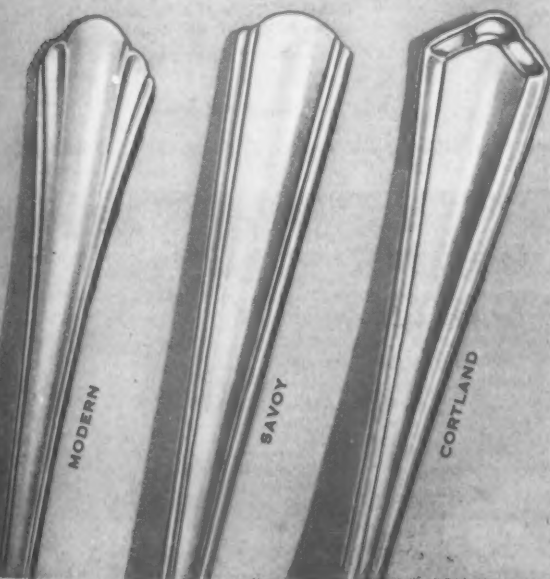
SILCO STAINLESS. (Grade rolled) Silco, our high-quality, low-priced stainless, is now grade-rolled for finer balance, proportion, strength. *Extra value at no extra cost. Bright finish.*



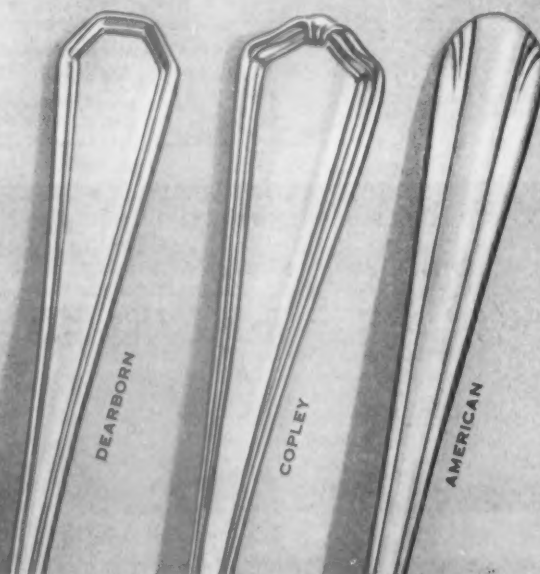
INSICO STAINLESS. Our finest stainless; carefully grade-rolled in heavy-gauge stainless steel. Perfectly tempered—practically indestructible. It *wears and wears*. Mirror finish.



VICTOR S. CO. [IS] This is the outstanding budget-priced quality silverplate! Maximum serviceability and ease of maintenance at minimum cost. Attractive styling, too!



INTERNATIONAL S. CO. XII TRIPLE Superb design and finish plus other outstanding features, make this silverplate the favorite of better restaurants throughout the country.



INTERNATIONAL on the table .. profit on the books!

Appropriate tableware has a *proved part* in successful restaurant management. International makes a pattern for every taste, a grade for every budget. Silverplate and stainless, each line is the finest in its category.

SEE YOUR INTERNATIONAL SILVER COMPANY CERTIFIED DEALER



FOOD WARMING EQUIPMENT CO., INC.

P. O. Box 163, Arlington Heights, Illinois, Telephone Clearbrook 3-7070

These Famous Colleges Use HOT-SERVE Food Warming and Conveying Cabinets

Washington State College Texas Tech College
Florida State University
Northwestern University University of Indiana
Purdue
University of Kentucky Kansas State College

(along with many other well known schools from coast to coast)

*it's one way they cut labor costs . . . speed service . . .
guarantee HOT meals whatever the size of the group*



Here's the Compact EXECUTIVE 48

For deluxe service to smaller gatherings, you can't beat the "48". It cuts serving time by 50%, lets you cash in on many groups you couldn't serve before at a profit. Using its 6 chrome-plated dish carriers you can serve 48 meals—or 60 meals if you use dish covers.

- Dimensions:
Outside: 54¾" high, 28" long, 29½" wide
Inside: 46½" high, 23" long, 22" wide
- Full size door for easy access
- 500 watt strip heater
- Shipping weight, 300 pounds

PRICE.....\$550.00* Complete

And Here's the Big AMBASSADOR 120

Slash waiter costs with this gleaming, versatile food warmer and conveyor that rolls to remote dining rooms for on-the-spot service . . . keeps food fresh and hot for an hour or more. It's small enough to be handled by one person, yet big enough to hold 96 meals in its 12 chrome-plated dish carriers—or 120 meals if dish covers are used. The Ambassador 120 can accommodate any size steam table pans with a bulk food capacity of from 600 to 800 servings.

- Dimensions:
Outside: 54¾" high, 51½" long, 29½" wide
Inside: 46½" high, 44" long, 22½" wide
- Two side doors for easy loading and serving
- 1000 watt strip heater
- Shipping weight, 400 pounds

PRICE.....\$795.00* Complete

THESE SPECIFICATIONS APPLY TO BOTH THE AMBASSADOR 120 AND THE EXECUTIVE 48

- Thermostatically controlled—fully automatic
- 110 Volt, AC—no special wiring needed
- Indicator lights show when heating and when ready
- Removable stainless steel humidifier pan
- Rubber bumper all around
- Underwriter's Laboratories approved
- Four 5" casters—2 swivel, 2 stationary. All swivels at no extra charge if requested
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- 3 removable chrome-plated wire shelves
- 1" Fiberglas insulation
- Refrigerator type hardware
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- National Sanitation Foundation Approved

GUARANTEE

Every HOT-SERVE food warming and conveying cabinet is unconditionally guaranteed against defects in workmanship and material for a period of one year from date of purchase.

There are many other HOT-SERVE models with capacities from 12 to 150 plates. Ask particularly for information about the popular SENATOR 96 and the CATERER 12.

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P. O. Box 163, Arlington Heights, Illinois

SICO MANUFACTURING COMPANY, INC.

5215 Eden Avenue South, Minneapolis 24, Minn.

GYM CLASS OVER...



15 MINUTES LATER...



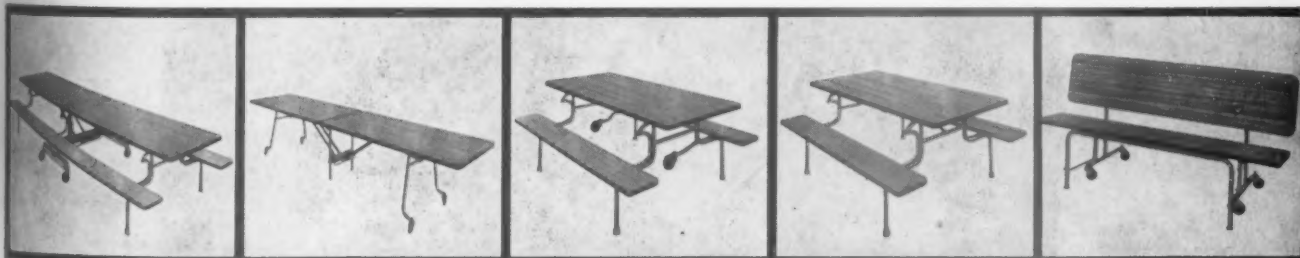
...300 EAT HERE ON SICO PORTABLE TABLES!

A 13 year old boy set up this gym for lunch in 15 minutes! That's because he can roll a Sico Rolling-Folding Table into place—fold or unfold it in 15 seconds *without effort*. Sico's exclusive "Floating Fold" does away with force and strain—"pinching" locks and latches.

You can see in the top photo how Sico Tables "nest" in an incredibly small area—only 8.25 sq. ft. for Sico's largest table. You can roll Sico Tables out of the room. *Every inch* of wall space can be free for windows or equipment. Rough handling

doesn't mar quality-built Sico Tables, either—frames are 14 gauge zinc lustron-plated steel and "school tops" are made of beautiful, rock-hard melamine plastic. Tables will withstand more than 2 tons load pressure!

Any "open" room is a *multi-purpose* room with the Sico System. It brings new *flexibility*, and *greater capacity* to any school, new or old. And the Sico System is an ideal solution for the crowded school on a *limited budget*.



B-Y

12 ft. portable table with benches, seats 16-20

L-B

Rolling-folding banquet table, choice of lengths

Tip-Top

Portable table with benches, 6 or 7 ft., seats 8-14

1900

Stationary table with attached benches, 6 or 7 ft., seats 8 to 14

2800

Bench-to-table unit, 6 or 7 ft., seats 4 to 6

For full information and literature on the Sico System write today to...



MANUFACTURING COMPANY, INC.

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KEYES FIBRE COMPANY

Dept. AS, Waterville, Maine

These quality products bring economy and efficiency to food service operations



KYS-ITE® MOLDED PLASTIC TABLEWARE. In its eye-appealing maple color, KYS-ITE Tableware is as beautiful as it is practical for schools and institutions. Break-resistant and stain-resistant, it is lightweight and easy to handle, easy to clean. The first cost of KYS-ITE, low in comparison to china and other quality plastics, is essentially the *last* cost over many years of service. Available in divided plates and bowls (as shown) plus plain round sizes, cups, saucers and round dishes.

Be Wise-Buy



AMERICAN SCHOOL AND UNIVERSITY—1958-59



KYS-ITE® MOLDED PLASTIC TRAYS. Now available in three styles—KYS-ITE Color Craft in handsome patterns and colors, Cork-Surfaced KYS-ITE with non-skid cork molded right into the trays, and regular KYS-ITE in the familiar, lustrous red, brown and rust finishes. KYS-ITE serving trays are virtually indestructible. They are impervious to boiling and are guaranteed not to warp.



STANDARD CHI-NET® PLATES. Speed service and eliminate the cost of dishwashing time and labor with these smooth, white, molded paper plates. Extra-strong CHI-NET is waterproofed and grease-resistant; even salad oils and gravies may be served with perfect safety. STANDARD CHI-NET is available in popular round sizes, compartment round, new Square Meal Tray, and a variety of utility dishes.

For complete information write:

KEYES FIBRE COMPANY

Dept. AS WATERVILLE, MAINE

You can cut costs with ...

Hotpoint

ELECTRIC COOKING EQUIPMENT

for VOLUME FEEDING KITCHENS

restaurants—schools—hotels—hospitals
and all other establishments

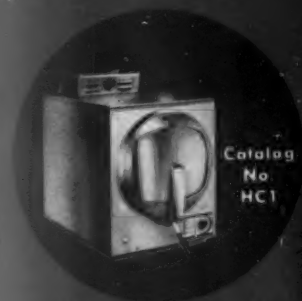
In every important area ... food, labor, production, maintenance, safety, and trouble-free long life ... Hotpoint equipment offers major money-saving advantages.

So, whether you are installing a completely new kitchen, replacing certain obsolete equipment, or adding to your production capacity ... look ahead and you'll choose Hotpoint. You can do it better—electrically!

Hotpoint "HIGH COMPRESSION" SPEED COOKER

cooks 3 to 10 TIMES FASTER THAN ORDINARY METHODS

Eliminate bulk cooking of large quantities of foods far in advance of meal periods. All-electric—needs no water or steam connections. Cooks 39 lbs. of raw potatoes in just 10 minutes, 30-lb. turkey in less than 40 minutes! Uses just 6 qts. of water. Helps retain vegetables' natural color, flavor, vitamin content—cuts costly meat shrinkage. Aluminum inner tank, stainless steel outer cabinet. Automatic timer. Power-Saver, exclusive safety features. Can be used on counter or stand (optional, extra equipment).



Standard voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase. Connected Load: varies from 5 kw to 12 kw, depending upon voltage. Overall Dimensions: 16 1/2" wide, 20 1/2" deep (including handles), 26 1/2" high (to top of pressure gauge housing, 33 1/2" high mounted on stand).

Hotpoint

DEEP-FAT FRY KETTLES

(Counter frying machines are described on back cover)

TWICE THE PRODUCTION—WITH HALF AS MUCH FAT!



Revolutionary
"MARK 313"
DEEP-FAT
FRYING
MACHINE

Glamourline
Heavy-Duty
DEEP-FAT
FRYING
MACHINE



French-fries 313 2-oz. servings of potatoes an hour from two to done in just 28 lbs. of fat! One pound of fat does the work of two. Preheats fat in 5 minutes—gives 100% temperature recovery after insertion of a cold load. Thermostatic temperature control between 200°-400°F. greatly increases fat life. Miracle attachment (optional equipment at extra cost) drains and strains used fat. Fat container guaranteed 20 years against burnout! Swing-up, stainless-steel self-cleaning Calrod® Heating Unit. Toggle On-Off switch, signal light, thermostat.



Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase. Also available for 450-volt installation. Connected Load: 12.0 kw. Dimensions: 20" wide, 38" deep, 32" high (36" high when mounted on 4" legs, optional equip. 36" high when Calrod® Unit is in raised position).

Wonderful for big quantity production! In a single load it is possible to French-fry 10.25 lbs. of potatoes, 7.7 lbs. of shrimp, 16.95 lbs. of fish fillets, 14, 8-oz. portions of chicken, or 64 doughnuts! 60-lb. fat capacity—90 lbs. of French-fried potatoes an hour. Pinpoint temperature control (200°-400°F.), with automatic, adjustable thermostat, guards against fat breakdown ... assures a better quality product. Sidewall Calrod® immersion units, signal light, storage cabinet base with door. Fat can be drained and strained without removing stationary fat container.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase. Also available for 450-volt installation. Connected Load: 18.0 kw. Dimensions: 24" wide, 38" deep, 32" high (36" high when mounted on 4" legs, optional equip.).

THE Hotpoint STORY—YOU'RE BOUND TO COOK ELECTRIC ... WHY WAIT?

HOTPOINT Glamourline

ELECTRIC OVENS

Precision-Controlled "Balanced" Heat Means Perfect Baking or Roasting Results Every Time!

Precision baking or roasting means no wasted food, time or cooking heat . . . exactly-as-dialed temperatures are maintained automatically when your ovens are Hotpoint! Directional top and bottom heat controls give all top heat . . . all bottom heat . . . or any desired combination of the two! Heavily insulated or all 6 surfaces—no "hot" or "cold" spots on the deck.

AUTOMATIC ALL-PURPOSE OVENS (not illustrated)

The controlled top heat gives any desired degree of browning, superb color and caramelized finish to meats. Fowl can be finished to perfection with top heat off! Hotpoint's famous "Braintemp" thermostat has shown its extreme accuracy even after 30 years of use! Precision temperatures can cut meat shrinkage up to 15%. These ovens also can be used for baking, are available in 1- or 2-pan sizes. Finished in Permalucent Gray with stainless steel veneer at door sides and top.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase; or 230 (220-240) DC. Outside Dimensions and Connected Loads: 1-pan section—36" wide, 38 1/4" deep, 22" high, 6.0 kw; 2-pan section—54 1/2" wide, 38 3/4" deep, 23" high, 6.2 kw. NOTE: Above dimensions for single, unmounted sections.

COMBINATION OVENS (not illustrated)

The base of the 2-pan Bake Oven and the 2-pan All-Purpose Oven are identical in size. Thus it is possible to stack one upon the other to provide this multi-purpose oven. Available in three practical combinations to fit every need.

AUTOMATIC BAKE OVENS

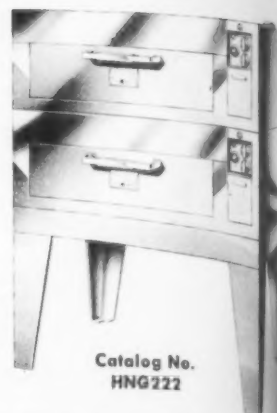
Exclusive "Air-Cushion" or Corplate decks assure even heat distribution, fast heating and fast cooling over every sq. in. of the deck surface. Ovens are finished in easy-to-clean Permalucent Gray, with stainless steel veneer at door top and sides. Reversible 3-heat switches for top and bottom Calrod® Units, thermostat control with 200°-500°F. range, signal light.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase; or 230 (220-240) DC. Outside Dimensions and Connected Loads: 60-loaf section—73 1/2" wide, 66 1/4" deep, 19" high, 11.0 kw; 40-loaf section—54 1/2" wide, 66 1/4" deep, 19" high, 7.5 kw; 20-loaf section—54 1/2" wide, 38 3/4" deep, 19" high, 6.2 kw. NOTE: Above dimensions for single, unmounted sections.

SUPERheat PIZZA OVEN

Cuts baking time to just 5 minutes for 6 12" pizzas! High, 300°-600°F. temperature range plus almost-instant heat recovery when cold load is inserted. Same dimensions as 2-pan Bake Oven. Can also be used for other baking and most roasting operations. Permalucent Gray finish with stainless steel veneer at door sides and top.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase; or 230 (220-240) DC. Outside Dimensions (per section): 54 1/2" wide, 38 3/4" deep, 19" high. Connected Load (per section): 7.2 kw.



Catalog No.
HNG222



Catalog No.
HNP222

AD-A-DECK CONSTRUCTION

Numerous combinations of Hotpoint Bake or All-Purpose Ovens, as well as the Pizza Oven, can be stacked 1-, 2- or 3-high, to conserve floor space, due to identical outside dimensions.



HOTPOINT Glamourline

ELECTRIC BROILERS

Fast, Uniform Heat for Uniform Doneness of Any Size Cut of Steak, Chops or Cutlets!

True radiant heat penetrates the meat more efficiently for interior, as well as exterior, doneness. Standing and backshelf models have the same general features, differ only in dimensions and capacities. Intense broiling heat can't be "killed"—even under constant, full-load operation. Thrifty, 15-position heat control enables the operator to use 1/4, 1/2, 3/4 or all of the Calrod® Heating Units.

STANDING BROILERS

This big-production, high-speed Hotpoint Broiler holds as many as 18 1-lb. sirloin strip steaks per load . . . broils up to 120 an hour! Greater power preheats to broiling temperature in only 10.5 minutes . . . gives a rich "charcoal" finish to rare steaks. Available in single or double sections, on cabinet or oven base. Permalucent Gray finish with chrome-plated steel front on broiler, stainless steel veneer at door sides and top of oven base.



Catalog No.
HBG19



Catalog No.
HRG167

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase; or 230 (220-240) DC (except No. HBG22, not available for DC). Also available for 450-volt installation. Outside Dimensions: 36" wide, 27 1/2" deep, 22" high (34" high with back See). Grid Area: 25" wide, 72 1/2" deep. Connected Load (per section): 12.0 kw.

STANDING BROILER COMBINATIONS



Catalog No. HBG19 Single Broiler, Unmounted
Catalog No. HBG23 Single Broiler, With Oven Base
Catalog No. HBG25 Single Broiler, With Cabinet Base
Catalog No. HBG27 Double Broiler, With Oven Base
Catalog No. HBG29 Double Broiler, With Cabinet Base

Exclusive!

PISTOL-GRIP GRID ELEVATION CONTROLS

Easy-to-grasp Pistol Grip raises or lowers the grid with effortless "trigger action." Grid pulls forward on ball bearings for easy loading. Releasing "trigger" locks grid securely in choice of 29 height positions.

BACKSHELF BROILERS

Tailor-Made for Marinating Over SUPERheating Mangos!

These medium-production units mount at the rear top of an oven point SUPERheating Mangos . . . approximately 33 units per hour. Features "charcoal" branding" grid, chrome-plated front, "Pistol Grip" grid elevation controls, reversible 3-heat switches.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase; or 230 (220-240) DC. Also available for 450-volt installation. Outside Dimensions: 36" wide, 27 1/2" deep, 22" high (34" high with back See). Grid Area: 25" wide, 72 1/2" deep. Connected Load: 12.0 kw.

HOTPOINT **SUPERLine** HEAVY-DUTY COMMERCIAL ELECTRIC RANGES

Featuring the Greatest Advancements
in Range and Griddle Cooking in a Decade

Again, Hotpoint is *first* with new, modern range advancements . . . *first* with specialized ranges for more efficient commercial kitchen operation . . . *first* with new economy, faster food preparation, and more accurate temperature control! The new Hotpoint SUPERline of Ranges is produced in identical dimensions so that any two or more pieces can be banked to form an attractive, "custom-made" appearing installation.

Hotpoint Automatic Electric **SUPERange**



Catalog
No.
HRG7
(with Cook-Top A
and Oven Base)



Cook-Top B
(optional on Models
HRG7 and HRG9)

Catalog No. HRG9
(with Cabinet Base)

Hotpoint Automatic Electric **SUPERchief RANGE**



Catalog No.
HRG13



3 French hotplates
hold large stockpots
at the same time . . .



... Super Hi-Speed
Calrod® Units cook
short orders!

Hotpoint Automatic Electric **SUPERgrill RANGE**



Catalog
No.
HRG14
(with Oven Base)



Catalog No.
HRG15 (with Cabinet Base)

Only the SUPERange offers all this: 3 fully automatic, combination griddle-hotplate sections, exclusive Recipe Robotrol that accurately measures exact heat from 250° to 500°F, 816 sq. in. of completely usable range-top surface for griddling or stockpot work!

Optional cook-top consists of 2 griddle-hotplates and 2 French hotplates. This world-famous range does the work of 2 ranges—automatically! Available with oven or cabinet base.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase. Also available for 450-volt installation. Overall Dimensions: 36" wide, 38" deep, 32" high to cooking surface (36" high with 4" legs optional equip.). Connected Loads: With Cook-Top A and (1) Oven Base—21.9 kw, (2) Cabinet Base—15.9 kw. With Cook-Top B and (1) Oven Base—20.1 kw, (2) Cabinet Base—14.1 kw.

A specialized heavy-duty range, with 2 front Hi-Speed Calrod® Units for fast short-order work, 3 French hotplates for stockpot work, and an all-purpose oven base! The Calrod Units feature 2600-watt efficiency, heat rapidly and respond quickly to changes in switch settings. Reflector pans are easily removed for cleaning. French hotplates are of rugged cast-metal, fit flush with nickel-and-chrome-plated steel top. Each top cooking unit has its own 3-heat switch. Available with oven base only, the SUPERchief is a complete cooking center!

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase. Overall Dimensions: 36" wide, 38" deep, 32" high, to cooking surface (36" high with 4" legs, optional equip.). Connected Load: 17.3 kw.

Giant, 850-sq. in. ROCKET griddle-top can't be "killed"—even under capacity, refrigerated loads 'round the clock! Wonderful range for all griddle work . . . cooks a variety of foods at separate, correct temperatures—thanks to 4 individual thermostats, each controlling one-quarter of the grid. Turns out 1050 hamburgers an hour! 200°-450°F. heat range, calibrated control dial and signal light for each quarter of the grid. Available with "Sealed-Heat" 1-pan oven or cabinet base.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase. Overall Dimensions: 36" wide, 38" deep, 32" high, to cooking surface (36" high with 4" legs, optional equip.). Connected Load: 22.2 kw, with oven base; 16.2 kw, with cabinet base.

Hotpoint Electric **HOT-TOP RANGE**



Catalog No.
HRG17

This new, tremendously durable bulk-cooking range holds up to 40 gallons of food in stockpots—at one time! Sturdy, 1 1/4"-thick hotplate sections retain their heat longer . . . cook food faster because of super-power. Each hotplate section is individually controlled by its own High-Medium-Low and Off switch. Calrod® Heating Units are imbedded right in the cast iron sections for efficient heat transfer.

The extra-tough cook-top will take years of punishing stockpot work with no decrease in efficiency or appreciable wear. Available with "Sealed-Heat" oven base only.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3-phase. Also available for 450-volt installation. Overall Dimensions: 36" wide, 38" deep, 32" high to cooking surface (36" high with 4" legs, optional equip.). Connected load: 21.9 kw.



Catalog No.
111HRG8
(French Hotplate Model)

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single-phase only. Griddle-Hotplate version also available for 450-volt installation. Overall Dimensions: 12" wide (without spreader plates), 36" deep, 32" high, to cooking surface (36" high with 4" legs, optional equip.). Connected Load: Griddle-Hotplate Model—5.3 kw. French Hotplate Model—4.1 kw.

AD-A-FOOT Sections

Handy "baker's stove" matches and banks with all Hotpoint Glamourline equipment. Available with one 12" x 24" fully automatic griddle-hotplate or two French hotplates, with or without side spreader plates.

NEW—Hotpoint ROCKET COUNTERLINE

ROCKET 12-X GRIDDLE (Model HG57)

Cooks up to 700 giant 4-oz. hamburgers an hour. Twin automatic controls maintain any selected temperature from 200°-450°F. on either half of the 36" x 18" grid. Front and rear grease troughs.

Standard Voltages: 208 (197-219) or 230 (220-240) AC, single or 3 phase. Dimensions: 36" wide, 31 1/2" deep, 12 1/4" high, to top of backplaster. Connected load: 12.0 kw.

Other Hotpoint ROCKET Griddles...

In addition to the Rocket 12-X, Hotpoint offers a complete range of ROCKET Griddles (which do not bank with the Rocket Counterline). From the giant Rocket 16's to the compact Rocket 3, each Rocket Griddle offers the ultimate in fast, super-capacity production. Almost instantaneous heat recovery, even under continued cold loads, make these the famous griddles that can't be "killed." Automatic temperature controls on all Rocket Griddles maintain any selected temperature from 200°-450°F.



Rocket 16-X—Model HG56

Rocket 6 (Model HG4) 24" x 18" grid. 2 temperature dials for independent control of both halves of grid. (This is one of 3 Rocket-type machines produced in smaller sizes to bank with Custom-Matched Counterline. See also Rocket 3 and Rocket Griddle-Grill below.)

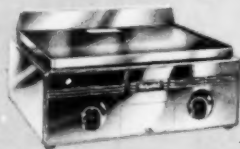
Standard Voltages: 208 (197-219), 230 (220-240) AC. Dimensions: 26 1/4" wide, 20" deep, 12 1/4" high. Connected load 6.0 kw.

Rocket 16-X (Model HG56), with front and rear grease troughs; Rocket 16 (Model HG58) with front trough. Giant 36"x24" grid. 4 temperature dials control each quarter of the grid independently.

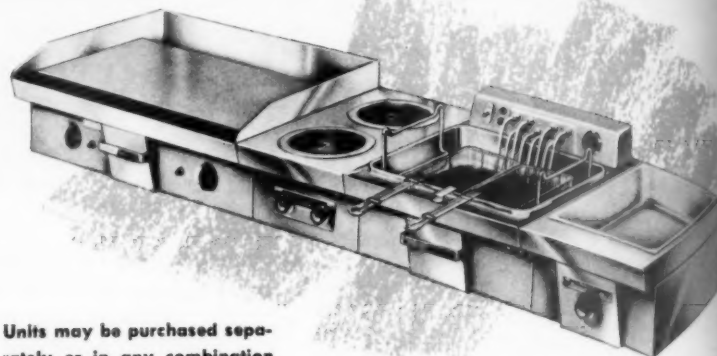
Rocket 16-X—Standard Voltages: 208 (197-219), 230 (220-240) AC. Dimensions: 36" wide, 26 1/4" deep, 12 1/4" high. Connected load: 16.2 kw.
Rocket 16—Standard Voltages: 208 (197-219), 230 (220-240) AC. Dimensions: 36" wide, 27 1/4" deep, 12 1/4" high. Connected load: 16.2 kw.

Rocket 12 (Model HG55) front trough. 36"x18" grid. Twin temperature dials control each half of the grid independently.

Standard Voltages: 208 (197-219), 230 (220-240) AC. Dimensions: 36" wide, 21 1/2" deep, 12 1/4" high. Connected load 12.0 kw.



Rocket 6—Model HG4



Units may be purchased separately or in any combination

ROCKET Hotplate (Model HH2)

Two 2600 watt heating units set into the sturdy, nickel-chrome plated steel top of this rugged, stainless steel device, pre-heat rapidly—will bring 2 qts. of water to full boil in only 5.9 minutes. Holds up to a 16-qt. stockpot for fast preparation of soups, stews, gravies, etc.

Standard Voltage: 208 (197-219) or 230 (220-240) A.C. Dimensions: 14 1/2" wide, 25 1/2" deep, 9 1/4" high. Connected load 5.2 kw.

ROCKET 61 Frying Machine (Model HK8)

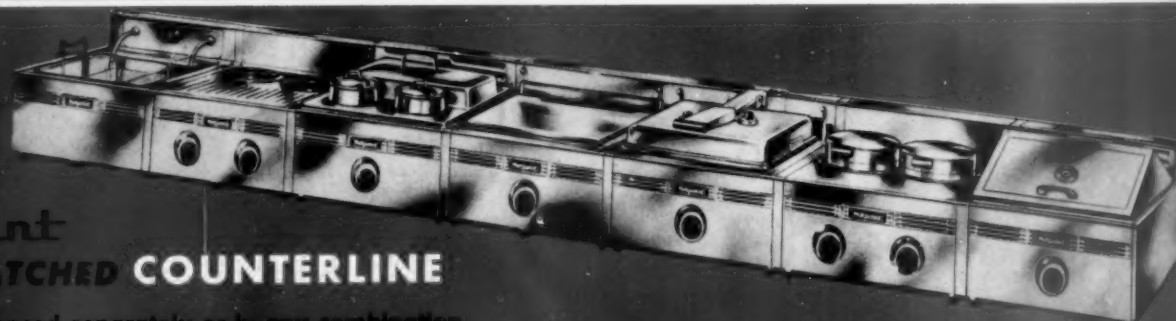
The high-production counter deep-fat frying machine that turns out 61-lbs. of French Fries (from raw to done) per hour in just 28 lbs. of fat. 100% heat delivery into the fat, 5-minute pre-heat time, complete fat straining and cleaning of machine (using optional Miraclean equipment) in only 8 minutes—all guaranteed in writing! 20-year guarantee against fat compartment burnout.

Standard Voltages: 208 (197-219) or 230 (220-240) AC. Dimensions: 21 1/2" wide, 25 1/2" deep, 9 1/4" high. Connected load 12 kw.

ROCKET Food Warmer (Model HF6)

Features an anodized aluminum receptacle which permits the efficient heat transfer that makes lower operating temperatures possible. Can be used either "dry" or "moist." Thermostatically controlled, 1500-watt heating unit assures high-speed pre-heating. No. 200 opening allows use of standard cafeteria pans, inserts and accessories. Will never over-cook food when properly used.

Standard Voltages: 115 (110-120), 208 (197-219) or 230 (220-240). Dimensions: 14 1/2" wide, 25 1/2" deep, 9 1/4" high. Connected load 1.5 kw.



Hotpoint CUSTOM-MATCHED COUNTERLINE

Units may be purchased separately or in any combination.

Real "Cooking Showmanship," to build appetites—and profits! Glittering banked and matched units to serve every cooking need. Exclusive quality controls that make every dish taste better... unequalled production records... unique money and work-saving features. All in gleaming chrome-plated steel finish, identical dimensions—17 1/2" wide, 20" deep, 12 1/4" high.

1 NEW! Super HK3 Fry Kettle—Added power means preheating to 350°F. in just 4 1/2 minutes... faster recovery, too! Turns out 27 lbs. of 3/4"-cut French-fries per hour... complete fat change never required. Self-cleaning, stainless-steel Calrod® Heating Unit swings up for easy removal of fat container. Rated wattage, 5.5 kw. Installed weight approximately 35 lbs.

2 HH1 Hotplate—2.7 times as efficient as flame-type hotplate! Hi-Speed Calrod Units deliver the right heat for every cooking job; Intense "High" to start food cooking fast, economical "Medium" to sustain cooking or for frying, super-thrifty "Low" for steaming or warming. Exclusive ribbed landing deck. Rated wattage, 2.5 kw. Installed weight, approximately 30 lbs.

3 HF1 Food Warmer—Stores foods at their ideal serving temperatures... keeps them "range fresh" and appetizing for hours with dry electric heat from all 4 sides and bottom! Variable thermostat. Over 100 pan and jar combinations can be used with choice of 3 adapter top-plates available. Rated wattage, 1.65 kw. Installed weight, approximately 32 lbs.

4 HG3 ROCKET 3 Griddle—Preheats to 400°F. in only 8 minutes! Uniform heat over 212 sq. in. of usable frying area—with no cold spots, no hot spots! Grease and spillage drain directly into large, conveniently removable receptacle at rear of grid. Rugged thermostat. Rated wattage, 3 kw. Installed weight, approximately 48 lbs.

5 HG5 ROCKET Griddle-Grill—The fastest griddling machine of its size on the market! Two grid surfaces—top and bottom—plus super-heat, mean that griddling time is cut in half! Use it closed, as a grill... use it open, as a griddle. Separate, variable temperature controls for top and bottom grids. Rated wattage: 6 kw. Installed weight, approximately 72 lbs.

6 HY1 Waffle Baker—"Batterbrain" signals when to begin baking, when to remove perfect waffle. Patented shake-out handle vibrates waffle loose from grid, which is specially treated to eliminate sticking. Rated wattage, 1.65 kw. Installed weight, approximately 32 lbs.

7 HF4 Roll Warmer—Keeps rolls and buns oven-fresh, appetizing for hours. Exclusive heat distribution system warms top layer of rolls first for serving convenience. Big capacity—4 dozen hamburger rolls, or 3 dozen hard rolls. No water, steam or drain connection. Rated wattage, 1.65 kw. Installed weight, approximately 40 lbs.

Specifications are subject to the availability of materials. Manufacturer reserves the right to make substitutions without notice whenever necessary.

HOTPOINT CO., A DIVISION OF GENERAL ELECTRIC COMPANY

Revolutionary Advance in

E-2/McC

SCHOOL FOOD SERVICE

the Step-Saving, Space-Saving, Labor-Saving Way



McCALL THERMCCOLD®

PASS-THRU • REACH-IN • WHEEL-IN • COUNTER-TYPE

Hot 'N Cold Food Banks

A 6-Month Efficiency Report

55% increase in service
load without added help

"... serving 800 for lunch where
we formerly served 515. Serving
in 2 lines with same number of
employees that originally operated
1 line, thanks to your equipment."

- allow safe advance cooking without loss of nutrition or appetite appeal
- provide compact storage of prepared foods at optimum temperatures
- permit straight-line flow from preparation areas to service areas without wasted steps or confusion

THERMCCOLD CORPORATION

Division of McCALL REFRIGERATOR CORPORATION • HUDSON, NEW YORK

*T.M. Reg. U.S. Pat. Off.

THERMcCOLD HOT 'N COLD FOOD BANKS

PASS-THRU • REACH-IN • WHEEL-IN • COUNTER-TYPE

keep hot foods HOT...cold foods COLD

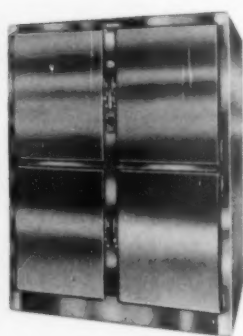
A Practical Key to Nutritious Meals for SMALL, MEDIUM OR LARGE SCHOOLS

Food service dieticians and school directors agree that student's selection of more nutritious meals is materially stimulated by the appetizing service of oven-fresh and refrigerator-fresh portions. The problem of offering such service within the imposed time and space limitations is successfully met by the McCall THERMcCOLD Hot 'N Cold Food Banks. With THERMcCOLD, oven-fresh and refrigerator-fresh portions are available from beginning to end of the lunch period.

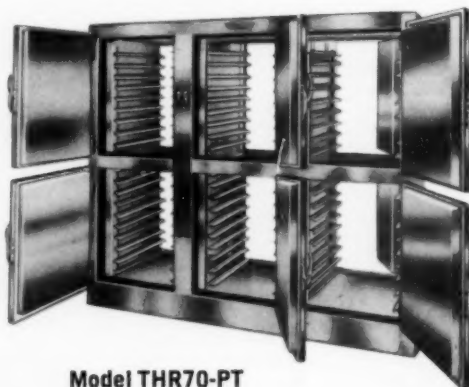
Equally attractive are the efficiencies and operating economies that THERMcCOLD affords. Foods can be safely prepared and

cooked in advance, saving confusion and the need for extra peak-load personnel. Compact storage in THERMcCOLD units saves space. Direct access to the Pass-Thru type cabinets from both the preparation center and the service area eliminates congestion, saves steps. Easy cleanability permits maximum sanitation with minimum labor.

THERMcCOLD Food Banks are available in single units and in series to fit any size school. The units are equally adaptable to installation in new schools and in existing buildings.



Model THR47

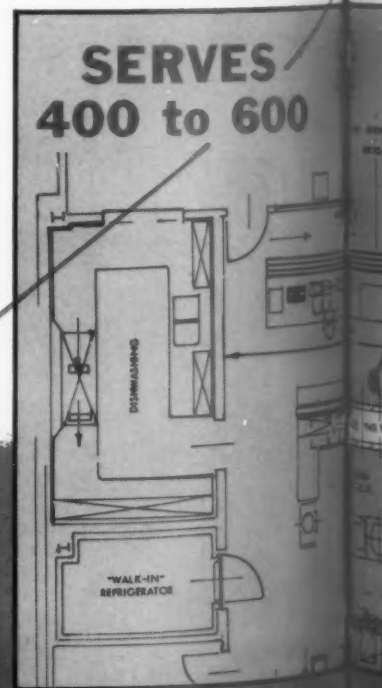
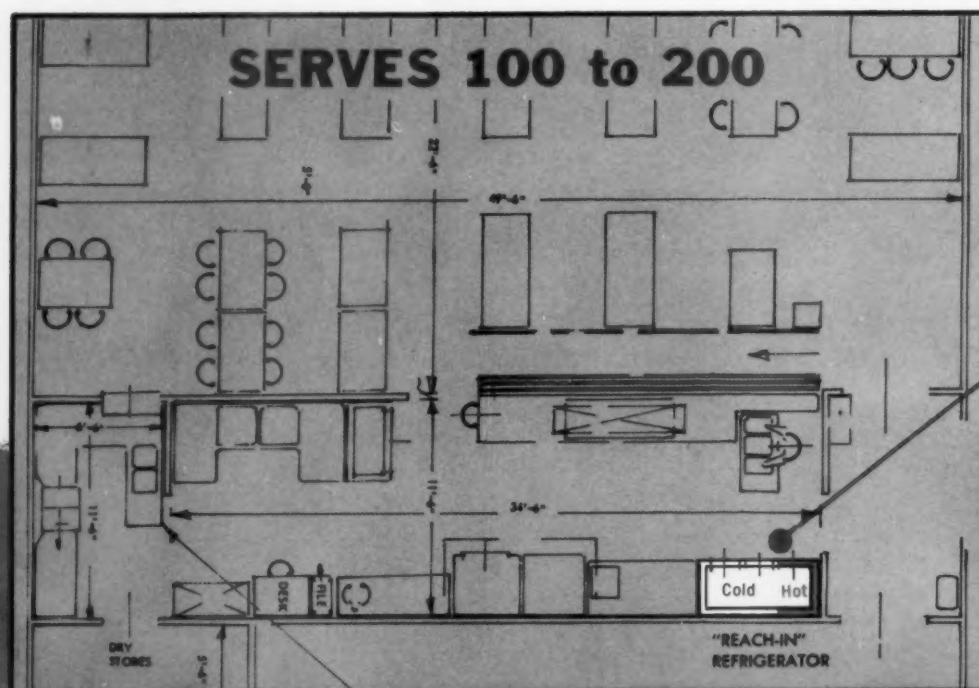


Model THR70-PT



Model TH65SC

Architectural layouts of school lunch kitchens designed to operate with a minimum of personnel.





for the LARGE SCHOOL

Now It's Safe to Cook Ahead

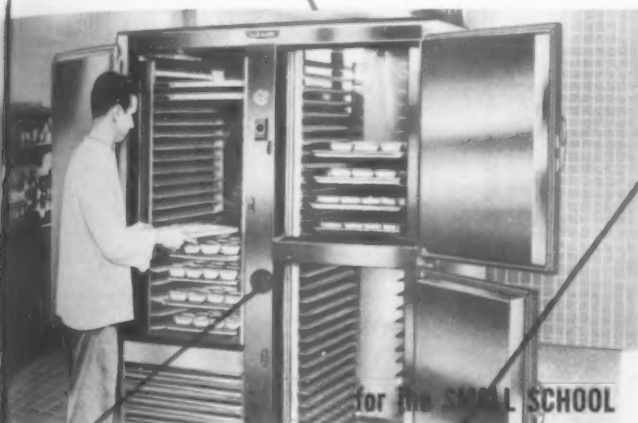
THERMcCOLD Hot 'N Cold Food Banks keep foods at optimum temperatures and flavor peak for hours. Soup, meat, fish, and fowl can be cooked well in advance . . . salads and desserts can be prepared well ahead . . . for smoother operation, greater efficiency, better service.



for the MEDIUM SCHOOL

Direct Access Saves Steps and Labor

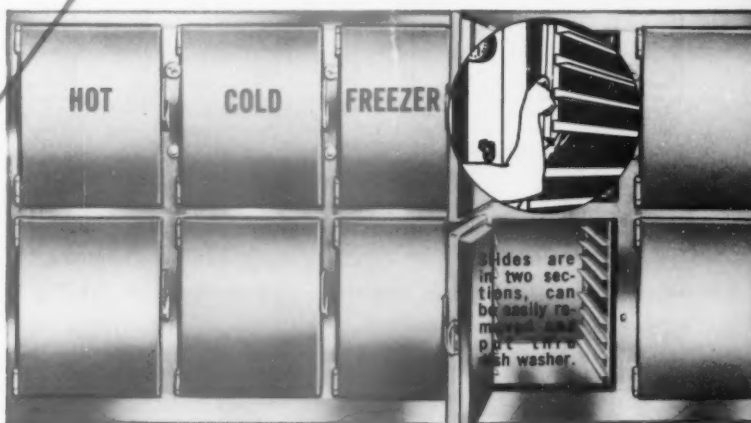
The Pass-Thru principle places step-saving storage between the preparation and service areas with direct access from both sides. No longer need portions be carried or trucked to the service area. No longer need peak-load demands create delay, confusion, lost motion.



for the SMALL SCHOOL

Compact Storage Saves Space

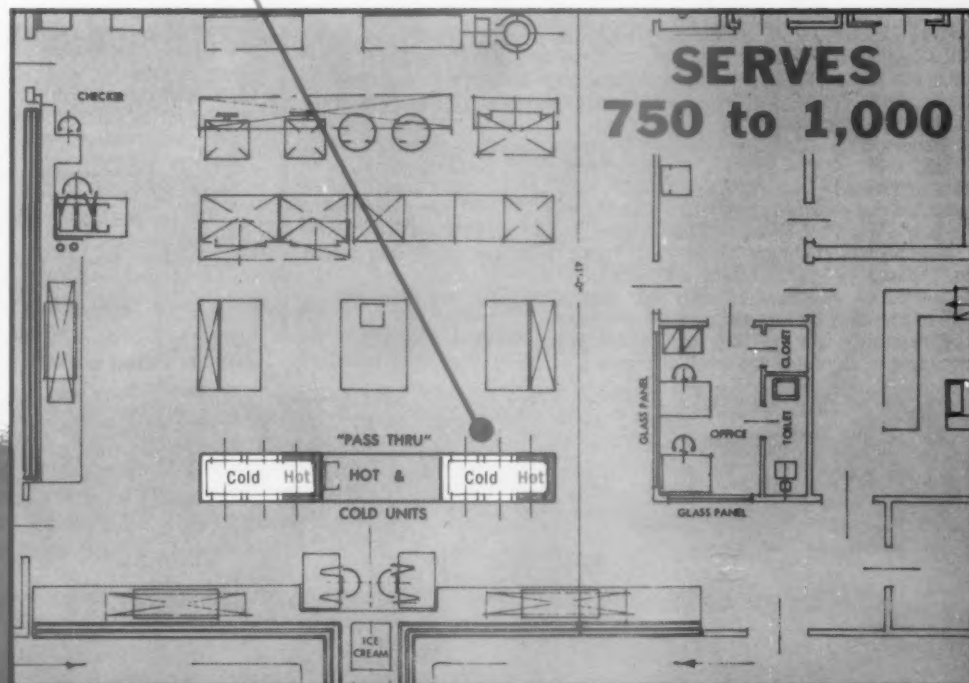
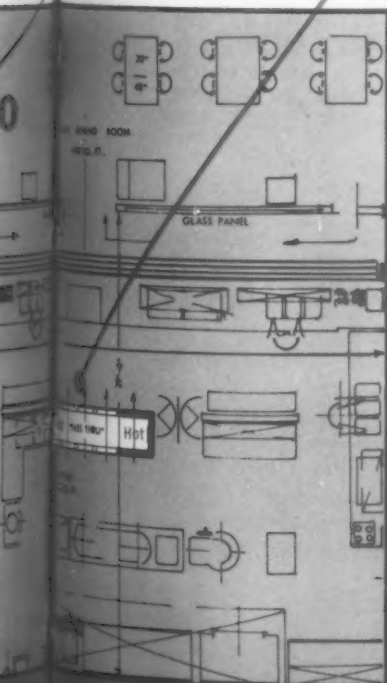
Compartment in THERMcCOLD Food Banks are normally furnished with tray slides which save labor and permit compact storage of prepared foods under optimum temperatures. The normal 3" spacing of slides offers maximum compactness, but spacing may be varied to suit the purpose.



Slides are in two sections, can be easily removed and put thru dish washer.

Complete Sanitation with Minimum Effort

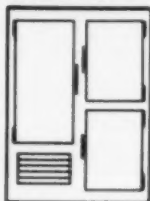
Exterior and interior finish of gleaming stainless steel. Cabinets in series are joined to eliminate seams where dirt or grease can collect. When the ends of a continuous battery are to be fitted against walls, a moulding is available for a seamless sanitary fit.



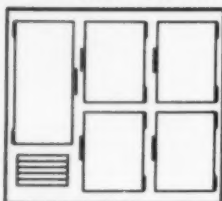
There's a **THERMcCOLD** HOT 'N COLD FOOD BANK to fit every School Kitchen Requirement

SELF-CONTAINED

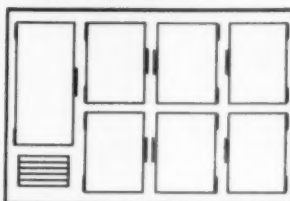
Reach-In, Pass-Thru and Under Counter Hot 'N Cold Food Banks



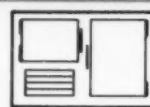
TH45SC — TH45SC-PT
All Hot or Cold



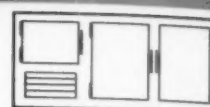
TH65SC — TH65SC-PT
Any Combination
1/2 Hot, 2/3 Cold



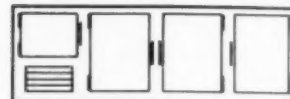
TH92SC — TH92SC-PT
Any Combination
1/4 Freezer, 1/4 Hot, 1/2 Cold



UC2SC — UC2SC-PT
All Hot or Cold



UC3SC — UC3SC-PT
Any Combination
2/3 Cold, 1/3 Hot



UCR-4 — UCR-4PT
Any Combination 1/2 Hot, 1/2 Cold
or 1/4 Freezer, 1/4 Hot, 1/2 Cold

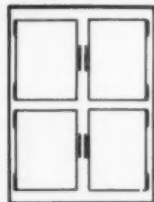
"UC" designates Under Counter Cabinet — does not include finished top.

REMOTE

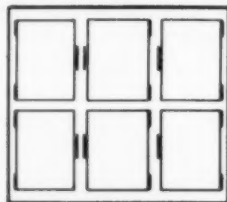
Reach-In, Pass-Thru and Under Counter Hot 'N Cold Food Banks



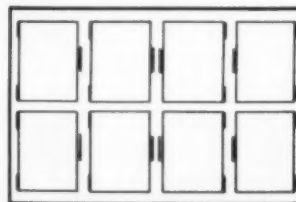
THR-20
All Hot



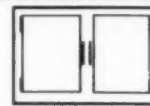
THR47 — THR47-PT
Any Combination
of Hot 'N Cold



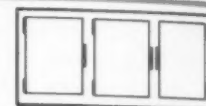
THR70 — THR70-PT
Any Combination
1/2 Hot, 1/3 Cold, 1/3 Freezer



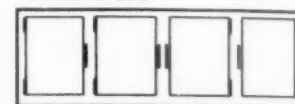
THR96 — THR96-PT
Any Combination 1/2 Hot, 1/2 Cold
or 1/2 Cold, 1/4 Freezer, 1/4 Hot



UCR-2 — UCR-2PT
Any Combination
of Hot 'N Cold



UCR-3 — UCR-3PT
Any Combination 1/2 Hot,
1/3 Cold, 1/3 Freezer



UC4SC — UC4SC-PT
Any Combination
1/4 Freezer, 1/4 Hot
1/2 Cold

Equally Suited to New and Existing Kitchens

The standard unit construction of THERMcCOLD Hot 'N Cold Food Banks make them equally suitable to installations in new buildings and in existing kitchens.

SPECIFICATIONS

CONSTRUCTION

Cabinets are permanently welded into one all metal rigid unit. No structural wood is used. Inner liners are one piece welded assemblies. Cabinet exteriors are stainless steel front and ends. Cabinet interiors are stainless steel.

INSULATION

All cabinet joints are adequately sealed with vapor barrier sealing materials. Insulation is Fiberglass semi-rigid bat 3" throughout.

Division walls between hot and cold sections are completely separated walls insulated with 4" of Fiberglass semi-rigid bat.

DOORS

Doors are deep pan type construction to remain free of distortion and sag. Fitted with balloon type Koroseal grease proof gaskets to assure tight seal. Door opening trim is commercial panelty material-vapor sealed. Extra heavy stainless steel door trim for lower door sills is available for use with heavy milk can storage in the lower storage compartments.

TRAY SLIDES & WIRE SHELVES

THERMcCOLD cabinets are furnished with stainless steel tray slides in each hot section and adjustable wire shelves are furnished in each cold section as standard equipment. Slides are available in cold sections if so desired and specified.

Standard slide complement consists of slides spaced 3" on center for 1-18" x 26" or 2-14" x 18" trays per level. Other spacings are available and slides can be provided for 12" x 20" steam table pans if so specified. Tray capacities per door opening with 3" o.c. slides are: for 3/4 door 15-18" x 26" trays; for 1/2 door 9-18" x 26" trays.

Wire shelves are heavy tinned finish. Frame is 3/4" bar. Cross bars are 1/4" spaced 3/4" o.c. Shelves are adjustable to 1/2" centers and are supported on aluminum pilasters and shelf clips. Stainless steel and extra heavy duty shelves are available as an extra.

Wire shelves are available to fit slides in hot sections should it be desirable to store odd and small size pans.

HOT 'N COLD SECTION PROPORTIONS

Cabinet models shown illustrate a nominal amount of hot and cold sections. Greater or lesser amount of hot or cold section are available according to the particular requirements of the installation and its details of service. Consult factory for specific recommendations.

HOT SECTIONS

Temperatures are thermostatically controllable between 100 degrees and 200 degrees Fahrenheit with the normal recommended operating temperatures ranging between 140 degrees and 160 degrees. Automatic pilot light indicates whether heat is on or off. Dial type thermometer is furnished for every hot section to indicate exact temperature within section. Each hot section is equipped with an adjustable vapor vent to permit control of vapor within cabinet.

COLD SECTIONS (Self-Contained)

Refrigeration is by means of hermetically sealed fan cooled condensing units (except for very odd electrical requirements) in all self-contained cabinets. Cooling units are heavy duty with coils balanced to provide automatic defrost during the off cycle.

Temperature is controlled by pressure switch. Each separate cold section is provided with dial thermometer to indicate exact temperature within section. 38 to 40 degree temperatures are considered standard.

Expansion valve is adjustable, pressure limit type to safeguard compressor against overload.

COLD SECTIONS (Remote)

Forced air ceiling type cooling system with heavy duty coils.

Top mounted condensing units with suitable enclosures are available for top mounted units. It is recommended that top mounted units be used only where adequate kitchen ventilation has been provided.

Specifications Subject To Change Without Notice

Send for catalog and
detail specifications on the THERMcCOLD line.

McCall's experienced field consultants are skilled in the planning and design of efficient school lunch kitchens. They bring a wealth of knowledge from intimate experience with school needs and how best to meet them. They will gladly work with your architect in designing equipment for your space and your budget.

THERMcCOLD CORPORATION

Division of McCall Refrigerator Corporation
Hudson, New York • Hudson 8-1533

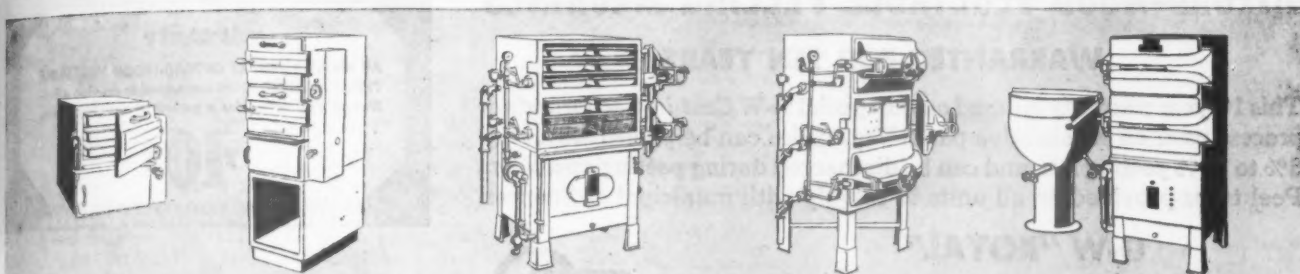


THE CLEVELAND RANGE COMPANY

E 505

3333-X Lakeside Avenue, Cleveland 14, Ohio

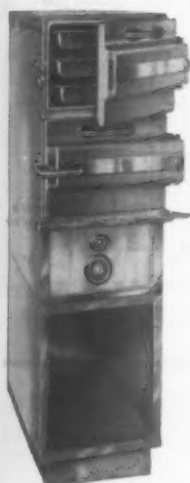
STEAM COOKING FOR SCHOOLS...



A Size and Style for Every School Kitchen!

"STEAMCRAFT"

for schools serving under 200 meals



Budget priced . . . ideal for even the smallest school kitchens, or as an auxiliary unit for larger kitchens. Steamcraft provides big-kitchen steam cooking advantages in a compact space saving package. Steamcraft is available in one or two compartment models with or without base for floor or counter-top use. Gas, electric or direct steam operation.

Steamcraft saves time, labor, fuel. It eliminates handling and scouring of many pots and pans. Cooking starts immediately and food looks and tastes better. Has automatic water feed and time control.

"SIDE-BY-SIDE"

Cafeteria Pan Steam Cooker



The "Side-by-Side" Steam-Chef accommodates two standard 12 x 20 inch cafeteria pans on each shelf, total capacity is 6 pans per compartment. It also holds standard 12 x 20 inch pans of 4, 6, or 8 inch depths. Food may be served from or stored in the container in which it was cooked. This eliminates transferring, handling and washing of pans. All compartments are easy to reach. A very popular model for schools and colleges.

Available in two and three compartment units in models for gas, electric or direct-connected steam operation.

Write for complete information and specifications.

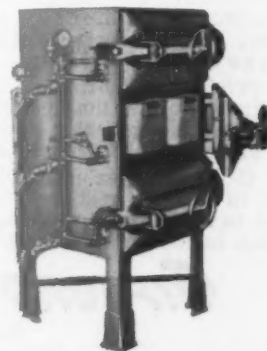
STEAM-CHEF Super Generator Steamer-Kettle Combination Units



For larger kitchens serving 200 or more meals. These STEAM-CHEF Super Generator Steamer-kettle combination units in various sizes provide the utmost in flexibility and variety of operation. Steamer and kettles can be operated simultaneously or separately.

Available with stationary or trunnion type kettle as illustrated, in 20, 30 or 40 gallon capacities, constructed of aluminum alloy or stainless steel.

Gas or electrically operated, Steamer-Kettle Combination units are attractive, easily cleaned and maintained. They provide the finest in steam cooking results and meet the most rigid sanitation requirements.



Standard direct connected steamer—Model 101-3B

available with 2, 3 or 4 compartments for installations with year around steam supply. Accommodates standard steamer pans or 12" x 20" cafeteria pans.

GROEN MFG. CO.

World's Largest Producers of Stainless Steel, Steam-Jacketed Kettles . . . Since 1907

4535 WEST ARMITAGE AVENUE, CHICAGO 39, ILLINOIS

SALES OFFICE: 30 CHURCH STREET, NEW YORK 7, NEW YORK

AUTOMATIC steam-jacketed cooking pays big dividends

SAVE TIME—Groen self-contained, stainless steel, steam-jacketed, *automatic cooking kettles* enable school cafeteria personnel to prepare large quantities of foods efficiently and economically. No other kettles compare with Groen features. Groen design eliminates considerable watching and stirring time and thus help prepare foods 50% faster than required on top range cooking.

SAVE LABOR—You save on labor costs when you install Groen fully *automatic cooking kettles*. Here's why. You eliminate carrying of heavy stock pots . . . stop waste because foods don't scorch with temperatures thermostatically controlled.

What's more, you cut cleaning time in half with easy-to-reach Groen kettle design.

SAVE INSTALLATION COSTS—Groen *automatic cooking kettles* do not require steam or water line connections. Water is hermetically sealed in the steam jacket, completely surrounding the kettle contents. Kettles can either be operated with gas or electricity.

Your nearby Groen dealer will gladly show how modern school and college cafeterias enjoy the many benefits of automatic, steam-jacketed cooking to lower food preparation costs. Call him today, or write Groen Mfg. Co. Dept. ASU-158, for more information.

"Cooking the Modern Way"

Colorful 44-page booklet describes advantages of steam-jacketed cooking. Crammed with helpful hints, charts, and suggestions for greater cooking efficiency. Write for your free copy now!



GROEN

GROEN MFG. CO.



AUTOMATIC electric cooking kettles

MODEL TDB These Groen tilting, automatic, electrically-operated, stainless steel, steam-jacketed cooking kettles are available in 10 to 20-quart capacities.

Completely self-contained, the kettles do not require steam or water connections. All you do is plug in to electric power source . . . flick the switch . . . set the conveniently-located thermostatic temperature control (140° to 250° F.) and automatic cooking starts immediately. Unit generates its own steam. The steam-jacketed chamber carries distilled water which is hermetically sealed in at the factory.

The Model TDB kettles can be used on any table top

or counter, similar to electric appliances. They're specially designed for safe, dependable, effortless operation. They're fitted with a splash-proof, sealed, stainless steel housing which contains all wiring and electrical heating components. The safety valve, thermostat control and pressure gauge, which operates between 4-45 psi, are readily visible. The new, safe, friction-type tilting mechanism with long-life bearings automatically locks the kettle in any position over 90° from vertical.

ABILITY—Model TDB kettles are ideal for preparing vegetables, oyster stews, icings, fillings, gravies, puddings, sauces, soups, fruits, pot-pie fillers, etc.

Write for Bulletin No. R-64-A.

AUTOMATIC electric cooking kettles

MODEL EE All-new, fully automatic, electrically-operated, stainless steel, steam-jacketed kettles are available in 20, 40 and 60-gal. capacities, with or without 90° tilting mechanism.

The Model EE has **double the wattage** of previous kettles. It heats faster . . . cooks faster. The low-boy design generates its own steam and thermostatically controls it—**automatically**. Steam jacket is charged at the factory with chemically pure water, containing exclusive Groen rust inhibitor, hermetically sealed . . . never needs replacing or recharging.

Completely self-contained, the Model EE kettles do not require steam or water connections. High-speed

action at the touch of the switch sends even heat around the kettle . . . side and bottom simultaneously.

All controls are located in stainless steel enclosure in full view and within easy reach of the operator. Thermostat controls temperatures from 140° to 250° F. Incorporated are the latest safety devices such as pressure gauge, pressure limit control, water level gauge, safety valve, low water cut-out, and contactor.

ABILITY—The Model EE kettles impart the most delicate flavor and cooking perfection to an endless variety of popular dishes.

Write for Bulletin No. R-66.



AUTOMATIC gas cooking kettles

MODEL AH Groen completely self-contained, gas-heated, stainless steel, steam-jacketed kettles are available in 20, 30, 40, 60 and 80-gal. capacities. They are the finest kettles ever built, providing dependable economy of gas operation plus the notable sanitary features of stainless steel. These kettles afford all the advantages of steam-jacketed cooking where a regular supply of steam is not available.

Model AH kettles are easy to clean and install. Simply connect to gas line and electric supply to operate the controls. Thermostat controls temperatures from 140° to 250° F. Improved fire box provides efficient

heating, with low temperature on outer shell at all times.

Steam-jacketed kettle produces its own steam. Distilled water, sealed in the steam generating chamber, never needs replenishing. There's no chance for lime deposits or burned out bottom.

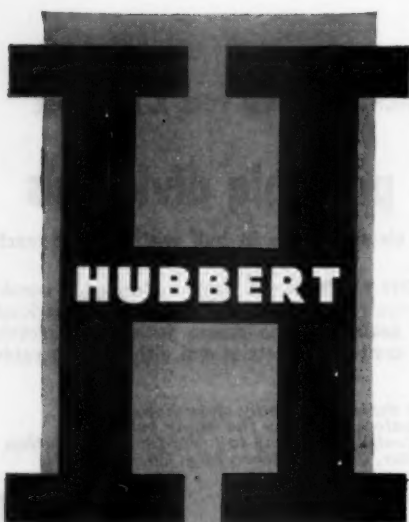
For fully safe, automatic operation the Model AH is equipped with thermostatic control, automatic pressure limit cut-out, approved pilot mechanism, sealed safety valve, sealed liquid level gauge, and automatic low water cut-out. All the controls are conveniently located in a stainless steel enclosure affording easy access.

Write for Bulletin No. R-61-A.



GROEN ALSO BUILDS COMPLETE KETTLE LINE FOR DIRECT STEAM CONNECTION

AMERICAN SCHOOL AND UNIVERSITY—1958-59



CRAFTED BY INSTITUTIONAL COOKING KETTLE SPECIALISTS SINCE 1903

Sold through the leading
Restaurant Equipment
dealers here and abroad

B. H. HUBBERT & SON, INC.

Specialists in Institutional Cooking Kettles Since 1903

1311 S. Ponca Street, Baltimore 24, Md., U. S. A.

Stainless Steel Steam-Jacketed Kettles

... your most Versatile Kitchen Utensil!

The versatility of steam-jacketed cooking kettles is fast becoming one of their most important attributes in an institutional kitchen.

When you add the tastiness of cooking, economy of operation and speed of processing, you must give first-choice to this modern method of volume food preparation.

Hubbert steam-jacketed kettles are the finest in the field . . . there's never been one known to wear out!

Self-Contained Steam

producing kettles are very useful where there is no other steam source. Hubbert makes a modern line of gas and electric-fired kettles for this purpose. We show Model EHK-SR, stainless steel throughout, engineered with the latest features for efficiency and safety. Cooks at temperatures from 70° to 250° F. Lo-Water cutoff eliminates danger of operating without sufficient water. Available in 20 to 80 gallon capacities.

Wall-Mounted Kettles

for schools with their own steam source. More and more institutions are specifying wall-mounted volume cooking kettles, introduced by Hubbert to insure:

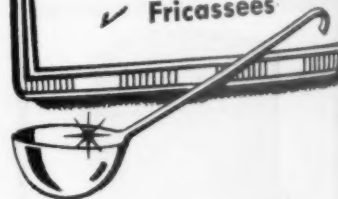
- Increased Sanitation
- Ease of Servicing
- Maintenance Economy

We show Model TWFT, one of over a dozen Hubbert steam-jacketed kettle styles suitable for wall mounting.

All Hubbert Kettles are made to meet the rigid standards of safety and sanitation established by the American Society of Mechanical Engineers and National Sanitary Foundation.

Steam Jacketed
Kettle Cooked
FOODS

- ✓ Soups
- ✓ Vegetables
- ✓ Meats
- ✓ Poultry
- ✓ Cereals
- ✓ Eggs
- ✓ Fruits
- ✓ Desserts
- ✓ Sauces
- ✓ Syrups
- ✓ Stews
- ✓ Fricasseees



There is a Hubbert style and size to fit your need. If you are installing new cooking equipment or remodeling your kitchen, we'd like to send you our complete catalog, without obligation.

MARKET FORGE COMPANY

Est. 1897 • Everett 49, Mass. • Tel. EV 7-4100

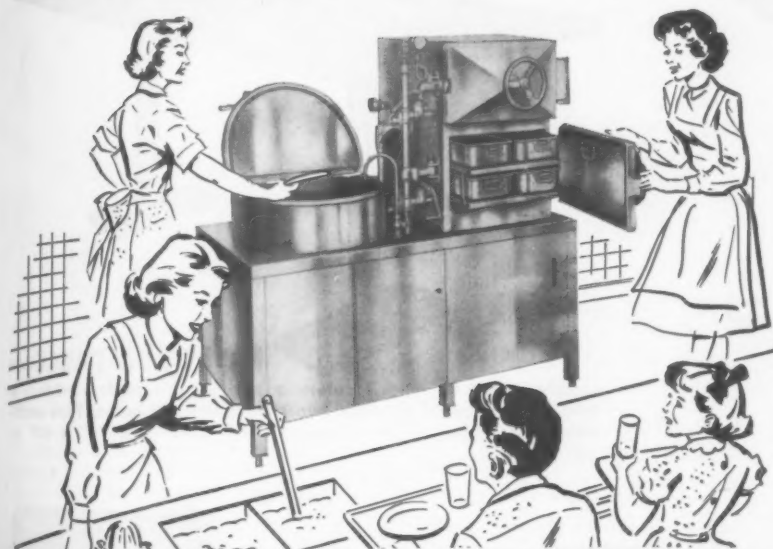
Designed for **THE SCHOOL KITCHEN**

A COMPLETE NUTRITIOUS MENU from...

just one

MARKET FORGE COMBINATION UNIT

- Safest piece of cooking equipment available.
- Low working height of kettle — ideal for ladling foods.
- Swinging pantry faucet for easy filling of kettle.
- One heavy duty trouble-free tube-less boiler.
- One set of connections — simple to install.
- Built-in drain collects condensate to one common point.



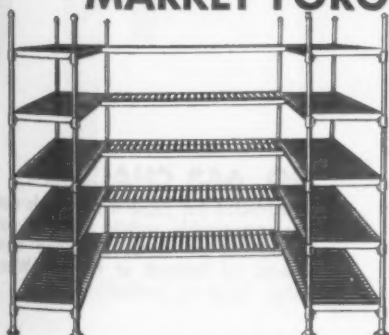
No more hot range-top cooking — no more pots and pans that need scouring and are heavy to lift — no more hot surfaces and stuffy kitchens. **STEAM COOKER** for vegetables — meats — poultry — sea food — pre-cooking — frozen foods — reheating. Plus a **STEAM KETTLE** for soups — stews — gravies — casseroles — spaghetti-sauces.

5 Models — Available either gas, electric or direct steam connected. Send for file folder packet, including detailed specs. on the complete line.

**THE MOST COMPLETE LINE OF
STEAM COOKING EQUIPMENT**



MARKET FORGE Food Storage Racks and Portable Equipment



For Walk-In Coolers and Freezers — Since 1897 — The Accepted Standard for All Refrigerated Storage Areas — Shelving — Galvanized or Stainless Steel

All racks rigid, self-supporting, hot galvanized steel or die-formed stainless steel construction. Shelves adjustable, easy to remove for cleaning. Assembled without nuts or bolts. Easily rearranged, relocated, added to. Available in any lengths or widths. MARKET FORGE "U" and "L" installations require no posts on the inside corner, permitting access to the entire shelf area. MARKET FORGE shelving consists of sanitary tubular posts with top caps and self-leveling floor flanges. Galvanized shelves are continuous angle iron frames with 1" heavy gauge slats 1" apart permitting free air circulation. Stainless steel shelves are one-piece die-formed for assured sanitation.

Send for complete catalog including specifications on our new flat surface die-formed stainless steel shelving.

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AMERICAN SCHOOL AND UNIVERSITY—1958-59

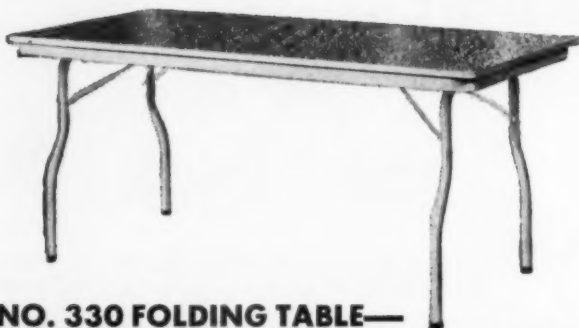
NATIONAL SCHOOL FURNITURE COMPANY

Div. of National Store Fixture Co., Inc.

Odenton, Maryland

NATIONAL CAFETERIA FURNITURE

- Skillfully constructed to exacting specifications, National cafeteria furniture is designed for attractive appearance and years of maintenance-free service.



NO. 330 FOLDING TABLE—

Has space-saving elbow-spread legs of 1 1/4-in. seamless steel tubing. Double bracing plus positive locking prevents accidental folding. Locking arrangement on corners assures slide-free stacking. Choice of NEVAMAR-surfaced, plywood or masonite top. Sizes from 30" x 48" to 36" x 96".



NO. 1906 TABLE—

Ideally suited to rugged cafeteria service, this table combines a NEVAMAR-surfaced top with two sturdy pedestal bases. Tops available in a range of colors and patterns. Sizes from 24" x 60" to 36" x 96".



NO. 326 TABLE—

Sturdy all-purpose cafeteria table with standard 1-3/16" NEVAMAR-surfaced top in a wide range of patterns and colors. In Harvest Wheat and Walnut finish. Sizes from 24" x 24" to 36" x 96".



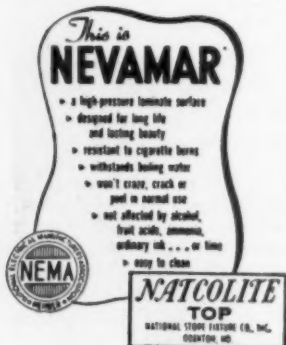
NO. 706 CHAIR—

Has chrome-plated frame with Queen Anne style legs, tipped with floor-saving Wynene Sockettes. Sturdy hardwood saddle seat with curved plywood back in Walnut or Harvest Wheat finish.



NO. 643 CHAIR—

Constructed for rugged duty, this chair has comfortable saddle seat and built throughout of clear, seasoned hardwoods. In Walnut or Harvest Wheat finish. Ideal for institutional use.



Write for literature
on the complete
line of National
School furniture.

NATIONAL SCHOOL FURNITURE COMPANY Div. of National Store Fixture Co., Inc. ODENTON, MARYLAND

AMERICAN SCHOOL AND UNIVERSITY—1958-59

PUFFER-HUBBARD REFRIGERATOR COMPANY

Grand Haven, Michigan

Export Office • PUFFER-HUBBARD INTERNATIONAL • 440 Lafayette St., New York City • Cable "MANREFSUP"



PASS-THRU REFRIGERATORS

Designed for installation in the wall between dining room and kitchen with access from either room. Ideal for storage of salads and other prepared foods. Available in 3 models: 4, 6, and 8 doors with 40, 66 and 92 cu. ft. capacities . . . Self-Contained.



REACH-IN REFRIGERATORS

Available in 2, 3, and 4 door models with 22 to 96 cu. ft. capacities . . . self-contained or remote . . . choice of Porcelain, Stainless Steel or Stainless Steel and Aluminum exterior finish.



COMBINATION TWO-TEMPERATURE REFRIGERATORS

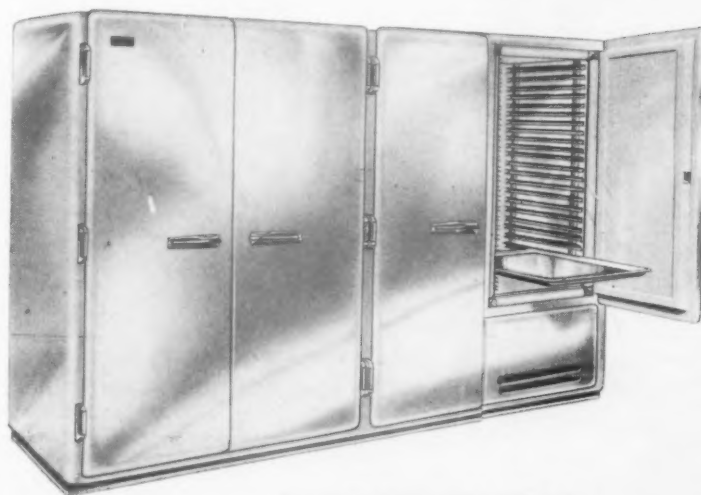
Model 20-35 (illustrated) has 20 cu. ft. Zero temperature capacity and 35 cu. ft. normal temperature capacity. Each section has its own condensing unit for positive temperature control. Also available in Model 15-15 with 2 doors and 15 cu. ft. capacity in each section.

UL APPROVED



NEW "P-H" *Lifetime* REFRIGERATORS and FREEZERS IN GENUINE PORCELAIN, STAINLESS OR STAINLESS STEEL AND ALUMINUM FINISH

Schools and Universities everywhere are turning to America's finest quality commercial refrigerators . . . the Puffer-Hubbard line. For efficiency, lowest operating and maintenance cost, and long life service, they find it pays to buy the VERY BEST! Investigate these famous "P-H" *Lifetime* Features: Genuine Porcelain or Stainless Steel Finish . . . Patented "Grad-U-Matic" Air Conditioning . . . Tubular Electric-Welded Steel Frames . . . Heavy Fiberglass Insulation . . . Solid or Triple Thermopane Doors . . . Automatic Self-Defrosting. Complete Line also includes Dry Beverage Coolers, Upright Storage Freezers and Walk-In Coolers and Freezers.



SALAD REFRIGERATORS

Available in 2, 3, and 4 door models with tray capacities from 52 to 120 Cafeteria Trays or Bun Pans. Choice of Porcelain, Stainless Steel or Stainless Steel and Aluminum exterior finish.

See YOUR NEAREST "P-H" DEALER, OR Write TODAY FOR ILLUSTRATED LITERATURE!

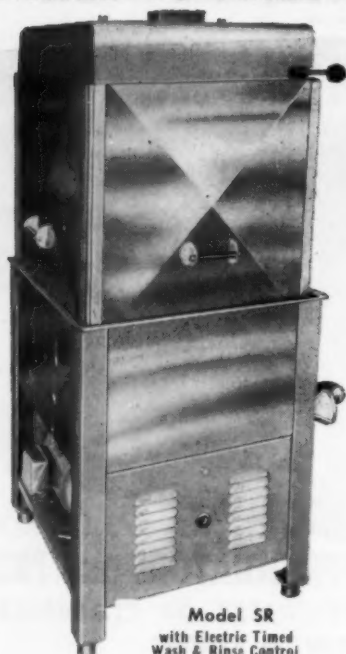
AMERICAN SCHOOL AND UNIVERSITY—1958-59

UNITED MANUFACTURERS

45 UM Windsor Place, Nutley, New Jersey

UNITED TO MAKE WORLD'S FINEST FOOD SERVICE MACHINES

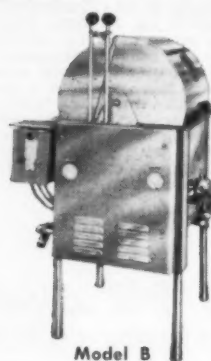
Now—from one source—a complete line of important food service machines; highest quality with cost saving operating features.



Model SR
with Electric Timed
Wash & Rinse Control

UNIVERSAL

The world's fastest dish, glass and silver washing machines.



Model B

A complete line of dishwashing machines and equipment; 3 Immersion type; 5 Roll Top type; 13 Single Tank Door and Curtain type; 9 automatic Rack Conveyor type single to four tank; 25 Rackless type with nylon continuous belt; 5 Brush and Spray type glasswashers; Final Rinse Boosters; electric timed wash and rinse controls.



Model Y2

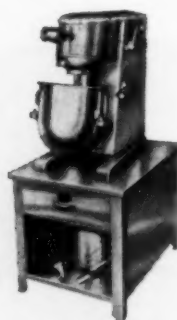
TRIUMPH

The pioneer manufacturer of vertical mixers with planetary action.

All standard sizes of vertical mixers, bench, floor and portable models. All models have single lever control for instant speed change. 12 and 20 qt. sizes feature tilted beater and bowl; power take-off for attachments, on the side. 30 qt. and larger sized mixers have finger-tip controlled, power operated bowl raising and lowering device.



Floor Model

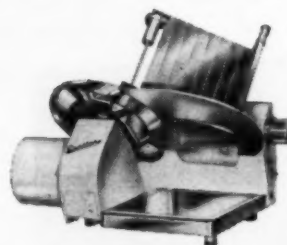


Bench Model

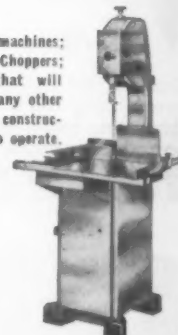
SANITARY

Compare with any other make on the market.

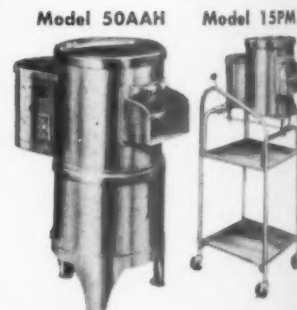
Food preparation machines; Slicers; Tenderizers; Choppers; Power Meat Saws, that will positively outperform any other make. Sanitary, safe construction, long life, easy to operate, profit-producing.



Model KB1 Saw



Model 52



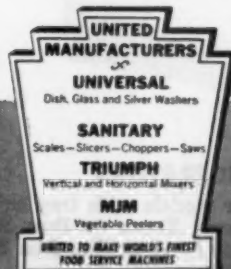
Model 50AAH

Model 15PM

MJM

America's first mobile vegetable peeler.

Lightweight, non-corrosive aluminum construction. All popular sized models. Peeling action features a self-sharpening abrasive compound on bottom and sides of peeling chamber. Faster peeling, less vegetable loss.



For full information write or call—

UNITED MANUFACTURERS, 45 UM Windsor Place, Nutley, N.J. Telephone Nutley 2-2790 or any of the following:

UNIVERSAL DISHWASHING MACHINERY CO.
30 Windsor Place, Nutley 10, New Jersey
Tel. NUTley 2-2790

SANITARY SCALE COMPANY
Belvidere, Illinois
Tel. 2181

THE TRIUMPH MANUFACTURING CO.
3400 Spring Grove St., Cincinnati 25, Ohio
Tel. Kirby 1-3740

MJM MANUFACTURING CO.
8479 Steller Drive, Culver City, California
Tel. TEXas 0-4191

THE JOHN VAN RANGE CO.

Branches in Principal Cities

535-555 Culvert Street, Cincinnati 2, Ohio



Main Kitchen • W. K. Kellogg Center • Continuing Education Building • Michigan State College • Lansing, Michigan •
Lewis J. Sarvis, Architect

food service equipment leadership

● Ever since its establishment in 1847 The John Van Range Company has specialized in designing and fabricating food service equipment for public and private schools and colleges.

● The first portable steel range in the world was the invention of the founder of this company. Carrying on, his successors have pioneered in developing new and improved equipment, spearheading advances in the science of mass feeding.

● When you see an unusually fine food service installation, you will undoubtedly find Van's name plate on the equipment.

● If you are planning food service equipment improvements, make use of Van's century of experience. Write today for new Van book showing illustrations of installations in all types of institutions.

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University of Tennessee Knoxville, Tennessee
Miami University Oxford, Ohio
Central Michigan College of Education .. Mt. Pleasant, Michigan

The John Van Range Co.

EQUIPMENT FOR THE PREPARATION AND SERVING OF FOOD

AMERICAN SCHOOL AND UNIVERSITY—1958-59

WEAR-EVER ALUMINUM, INC.

6258 Wear-Ever Bldg., New Kensington, Pa.



WEAR-EVER Aluminum Gas-Fired Kettle

Cooks without steam!

The ideal method for quantity food preparation when steam is unavailable. Gas heat is applied directly to a heavy gauge, seamless aluminum shell. Spreads heat so fast and evenly that the entire utensil does the cooking. Sanitary protection and emptying ease are provided by easy-to-clean valve and tangent draw-off. Kettle is equipped with automatic pilot.

Features a specially designed Blodgett Pyrastove burner. Non-cast iron construction reduces weight, eliminates breakage. Fuel is saved by sensitive low temperature control.

Also features a non-drip, single piece aluminum cover, which closes down over the kettle bead. Has cool drop handle.



Specifications for Wear-Ever Gas-Fired Kettles

	No. 19020 20 gal.	No. 19030 30 gal.	No. 19040 40 gal.
Overall Height	37	37	37
Outside Diam. of Casing	27	31 1/8	33 3/8
Size of Draw-off	1 1/2	1 1/2	1 1/2
Floor to Draw-off	19 13/16	18 3/8	15 13/16
Gas Inlet I.P.S.	3/4	3/4	3/4
Height of legs	6	6	6



Pyrastove
Burner



Non-Drip
Cover

STOCK POTS



Two styles, regular and with bibbs (faucets) and strainers. Loop handles, open beads. In 2 1/4, 3, 4, 5, 6, 7 1/2, 10, 15 and 20 gallon sizes.

Also: Extra heavy duty style in 13 sizes.

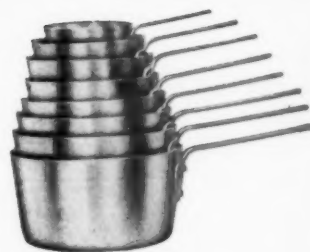


SAUCE POTS



Have open, sanitary beads, loop handles, rounded corners and flat bottoms. Available in 14, 20 and 26 gallon sizes. Also: Extra heavy duty style in 8 sizes.

SAUCE PANS



Sloping sides, rounded corners, long handles. Nesting sizes as follows: 1 1/2, 2 1/4, 3 3/4, 4 1/2, 5 1/2, 7, 8 1/2 and 10 quart sizes. Also: Extra heavy duty style in 9 sizes.

**SEND FOR A COPY OF WEAR-EVER'S CATALOG
SHOWING THE COMPLETE LINE**

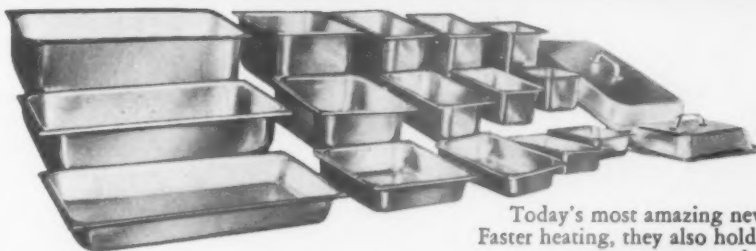
WEAR-EVER ALUMINUM, INC.

DOUBLE BOILERS



A wide range of sizes in standard and heavy duty weights. Sanitation approved.

"EMI-GLOW" HOT FOOD SERVICE TABLE PANS



Today's most amazing new pans. Faster heating, they also hold higher temperatures, use less fuel.

"TWIN" OVEN UNITS



"TWIN" OVEN UNITS fit side-by-side without loss of space. The three pans in this group allow any combination of covered or open roasting. Tops are interchangeable to provide desired pan heights. Pans are 2¼"-3½"-6½" in depth.

ROAST AND BAKE PANS



FULL OVEN-SIZE PANS in four sizes provide proper dimension for any roasting or baking need. The 1¼", 2¼" and 3½" depth pans serve as separate bake or sheet pans or as covers for deep roast pan.

UTILITY PAN



Ideal for holding table silver, or for use as a refrigerator pan. Has stain-resistant Alumilite finish; open sanitary bead. Available with "slide-on" cover.

SHEET PANS



Rolls and sweet goods baked on these pans have an even texture and color. That's because aluminum absorbs and spreads heat evenly. The superb baking surface is unaffected by moisture or washing. Strong, light. Many sizes in choice of Alumilite or natural finish. See catalog or your dealer for details.

PIE PANS



Absorb and spread heat evenly; produce a golden-brown crust. In Alumilite or natural finish. Top inside diameter 9". Also other styles and sizes.

KITCHEN PANS



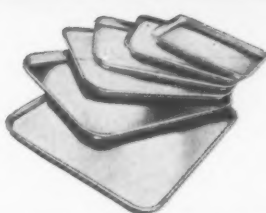
Available in seven nesting sizes as follows: 1½, 2, 3, 4, 5, 6 and 10 quart sizes.

PITCHERS



Light yet strong and dent-resistant. Have cool Bakelite handles as shown, or welded aluminum handles. In 1½, 2½ and 3½ quart sizes. Also other sizes and styles.

TRAYS

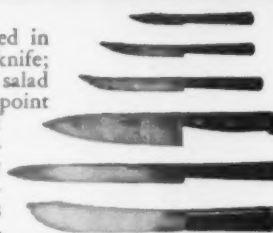


All trays made of Wear-Ever's extra hard aluminum alloy. Your choice of regular or Alumilite finish. Six sizes from 12½" x 9¾" to 22½" x 16 9/16". See catalog or your dealer for details.

PROFESSIONAL CUTLERY

These six knives are commonly used in school kitchens: 2½" cook's paring knife; 3" clip-point paring knife; 6" fruit and salad knife; 8" French cook's knife; 8" clip-point butcher knife; 10" slicer. Made of high-carbon alloy steel specially developed for Wear-Ever cutlery. (On fruit knife and paring knives a special edge-holding, high-carbon stainless steel is used.) Also a complete line of professional cutlery with the new safety-grip Lamb Wedglock handle.

Send for complete Professional Cutlery Catalog.



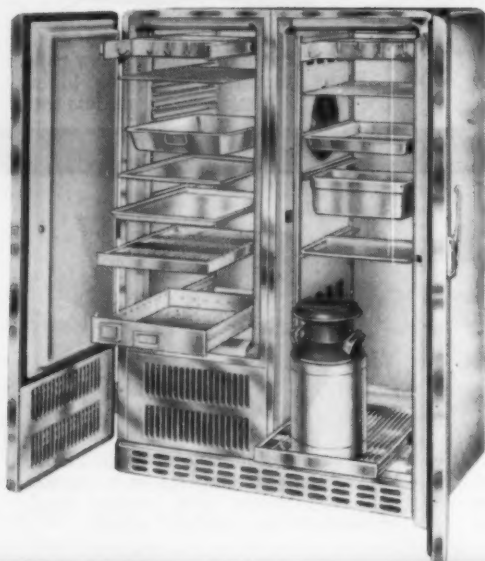
NOW AVAILABLE... Check sheets giving recommended lists of utensils and other equipment for different size cafeterias. Tell us how many you feed and we'll send you the list you need.

VICTORY METAL MANUFACTURING CORP.

Plymouth Meeting, Penna.

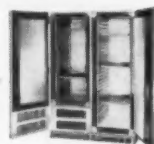
DIRECT FACTORY REPRESENTATIVES IN ALL PRINCIPAL CITIES

QUICK CHANGE INTERIORS TO MEET YOUR DAY-TO-DAY FOOD STORAGE REQUIREMENTS

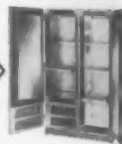


You Can Change the Interiors
in Minutes — **WITHOUT TOOLS**

<FROM THIS • TO THIS>



.. OR THIS>



EVERY INTERIOR IS ADJUSTABLE TO TAKE
ANY OR ANY COMBINATION OF:

BAKERS PAN SLIDES • STATIONARY OR
PULL-OUT MEAT RAILS • REFRIGERATED
DRAWERS • STATIONARY OR PULL-OUT SHELVES



STA-KOLD® • VIMCO® • SNO-QUEEN® ALL-METAL COMMERCIAL REFRIGERATORS

OVER 200 MODELS FROM 15 TO 90 CU. FT. • SELF-CONTAINED, REMOTE & PASS-THROUGHS • STAINLESS STEEL, ALUMINUM, ENAMEL (ALL COLORS) OR PORCELAIN

Complete New Line of: DOUGH RETARDERS, SALAD REFRIGERATORS, FREEZERS, BAKERS FREEZERS, DUAL TEMPERATURE REFRIGERATORS

V-LINE REFRIGERATORS AND FREEZERS for BULK LOADING, STORING AND SERVING

Complete food handling system for mass feeding. 50% more useable space in any given floor area. Mobile rack may be loaded at preparation table then wheeled on the cart to the refrigerator for storage. Later the loaded rack can be rolled out on the cart to the dining area for quick serving. Made of stainless steel. Available in one, two, three and four full length door models. Self-contained or remote, warming cabinets, freezers and normal temperature models. Also available as pass-through. You can bulk load from top to bottom with no wasted space.



SEE THEM AT YOUR DEALER'S TODAY OR WRITE FOR ILLUSTRATED LITERATURE



THE WORLD'S FINEST CUSTOM BUILT SCHOOL KITCHENS

An attractive, expertly planned and superior constructed kitchen contributes to the efficiency of home management wherever it's practiced—in the home or in the school.

Therefore—for your classroom needs—why not choose the one kitchen that has proven itself in the home and in the school as "The World's Finest?" A Coppes Napanee custombuilt hardwood kitchen.

A Coppes Napanee kitchen offers schools and institutions the important "long-wearing" qualities of beautiful, hard Maple . . . extremely durable and attractive "Furniture Finishes" . . . complete freedom of design . . . plus the highest institutional standards in the kitchen building field.

Also consider the one thing a Coppes Napanee kitchen does not have. Limitation! There is no limitation to the size, shape, style, finish, furnishing or planning of a Coppes Napanee hardwood kitchen. Each creation is **completely** custombuilt—without compromises or substitutions—exactly to specifications, thus providing **all** the conveniences and training advantages of "The World's Finest Kitchen" and most modern, up-to-date built-ins, appliances and facilities.

ONLY COPPES NAPANEE OFFERS ALL THESE IMPORTANT QUALITIES

SELECTED HARD DURABLE MAPLE

processed and machined to the highest specifications in the wood-working industry.

COMPLETE CUSTOM BUILDING

by the world's most experienced manufacturer of custom built kitchens.

EXCLUSIVE "FURNITURE FINISHES"

scientifically applied to produce a beautiful surface that is extremely hard and durable to resist crazing, cold checking and acids.

WIDEST CHOICE OF COLOR TREATMENTS

including the widest range of matchless natural grain stain "furniture finishes" and modern enamels.

SPECIFIED INSTITUTIONAL QUALITY

hardware, trim, moulding and accessories. All types and sizes.

CUSTOM CABINETS

for all types, sizes and brands of built-ins, appliances and training aids.

COPPES, INC., NAPPANEE, INDIANA

Coppes, Inc. is the oldest continuous manufacturer of custombuilt kitchens—pioneering many of the trends in styling and construction that are now standard in today's modern kitchens.

This unparalleled experience—plus strict adherence to the highest standards in the woodworking industry—have brought Coppes Napanee world-wide recognition as "the very finest kitchen made."

Superior Construction

Coppes Napanee kitchen equipment is carefully constructed by skilled craftsmen. Each piece goes through many inspections during actual manufacture — and no detail is overlooked that will give you the greatest value for every dollar invested. The prestige and matchless quality of the Coppes Napanee line is the direct result of more than 80 years experience in building fine merchandise.

The extensive Coppes Napanee line including a complete range of cabinets, sinks and counter tops, is designed to provide the finest possible quality in every price bracket and to adequately meet the desires of every purchaser. Whether the installation be complicated or simple, elaborate or modest, you'll find many reasons why this famous line of custom built cabinetry is best suited for the job. For your own convenience and satisfaction—and for lasting client good will—recommend and specify Coppes Napanee kitchens every time!

Materials

LUMBER: All lumber used in Coppes Napanee kitchen equipment is selected northern hardwood, properly and carefully dried in our own kilns.

DOORS: Doors are $\frac{3}{8}$ " thick, 5 ply construction; solid basswood lumber core, hardwood crossbanding, and hard maple faces.

DRAWERS: Fronts are $\frac{3}{8}$ " thick, same material as doors. Drawer sides and back $\frac{3}{8}$ " solid oak lumber. Dovetailed corners. Bottoms $\frac{3}{8}$ " oak plywood gained into adjoining parts on all sides. Drawers are suspended from a hardwood center guide by metal hanger and operate on nylon glides.

BASES: All joints are mortised and tenoned. Ends are flush construction. Shelves are solid lumber $\frac{3}{8}$ " thick. All front members are 1" thick.

WALL CABINETS: All joints are mortised and tenoned. Ends are solid lumber $\frac{3}{8}$ " thick. Shelves are $\frac{1}{4}$ " thick, gained into ends. Front frame is 1" thick.

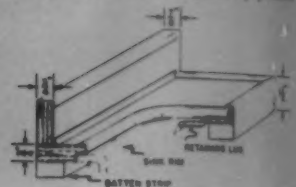
Finishes

STAINED FINISHES: Specially developed maple stains are obtainable in beautiful new satin shades (list on page 4). Stains are sealed in with an extremely hard, durable synthetic lacquer resulting in a surface which is not easily marred and will not craze or crack.

METHODS: Careful sanding and polishing before application and a special drying process insure perfection equaling that of other fine furniture.

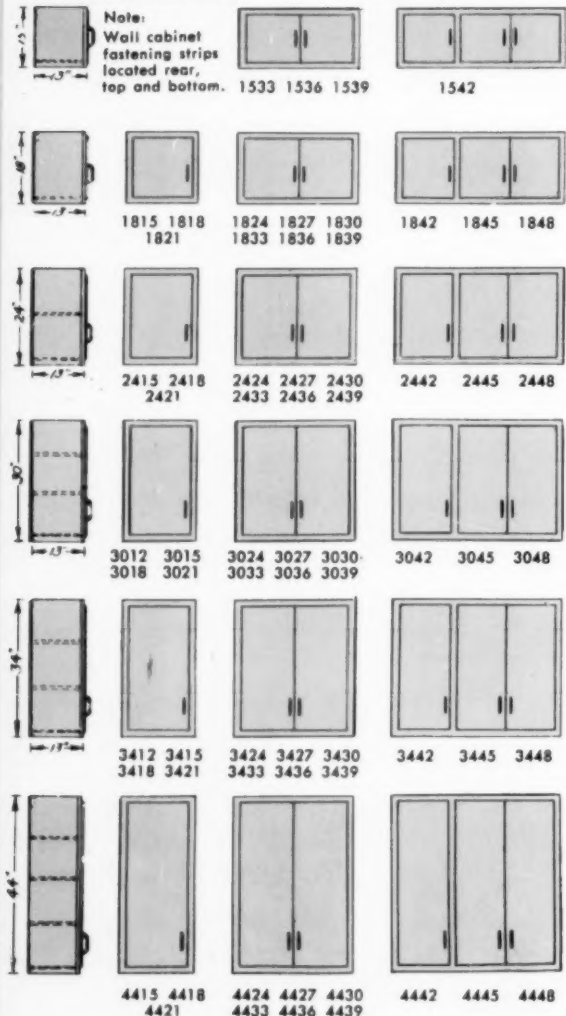
Counter Tops

Formica, stainless steel, or Vinyl are bonded to $\frac{3}{4}$ " exterior grade plywood base. Front and sides are trimmed with $1\frac{1}{2}$ " stainless steel edging. Desired height backsplasher shall be trimmed with $\frac{3}{8}$ " stainless steel mold. Edge grain maple tops $1\frac{1}{2}$ " thick and up to 10' in length are available. Small inserts of maple or stainless steel can be integrated into counters of other materials.



WALL CABINETS

SCALE $\frac{1}{4}$ " = 1' 0"



WALL CABINET INFORMATION

Note: First two numbers denote height, second two numbers denote width.

OPTIONAL EXTRAS—

Sliding Doors—Any cabinet 24" through 48" in width

Adjustable Shelves

Cook Book & Pie Tin Spaces

Available in units of three 3" spaces

Revolving Shelves—

Corner cabinets only

Glazed Doors

Doors Front and Back

Finished Back

Note: Wall cabinets having three doors standard with single door left. If desired—can be obtained right. Wall cabinets having single door standard hinged left—can be obtained hinged right.

CORNER CABINETS



Fixed Shelves

30 CC

34 CC

44 CC

Height

30"

34"

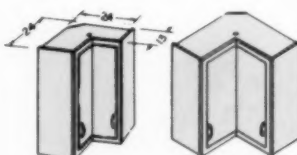
44"

Revolving Shelves

30 CC RS

34 CC RS

44 CC RS



PC WALL CABINETS

30 CC PC

34 CC PC

44 CC PC

30" High

34" High

44" High

The PC Series cabinets have revolving shelves attached to door.

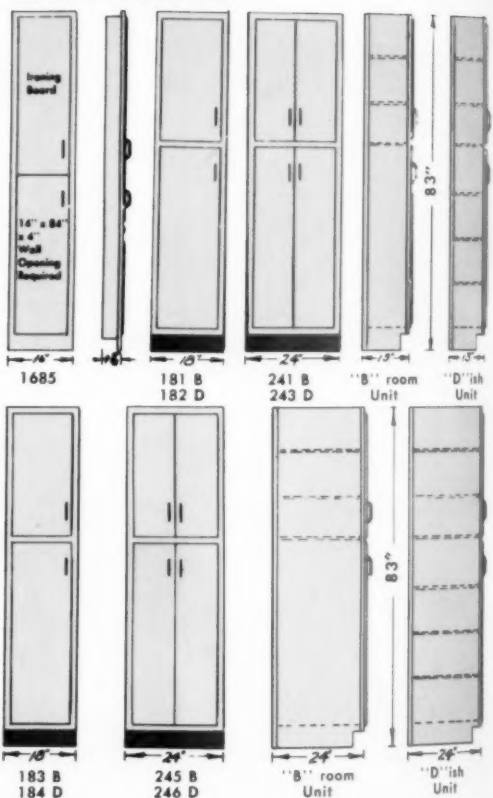
The regular 3000, 3400 and 4400 series cabinets can also be used for corners by blinding either left or right.

WALL CABINET EXTRAS

Special "U", "L" and other offsets in any cabinets to hide obstructions.
Mid-counter units, condiment shelves.
Pigeon Hole units, recipe file units.
Built-in exhaust fan cutouts.
Adjustable shelves
Sliding wood or glass doors.
Quarter or half round ends and shelves.
Flush tops, bottoms and backs.
Finished backs.

Angle fillers, false fronts.
Angle front "tapered" cabinets.
Double front cabinets for hanging.
Provincial style door molding.
Matching soffits, valances and trim.
Wall cabinets as shallow bases.
Electric towel dryers.
(WRITE FOR COMPLETE ARCHITECT'S FILE OF EXTRAS AND ACCESSORIES)

UTILITY CABINETS

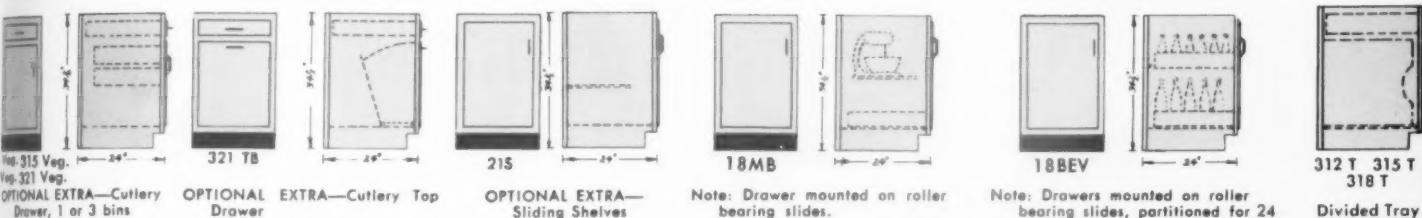
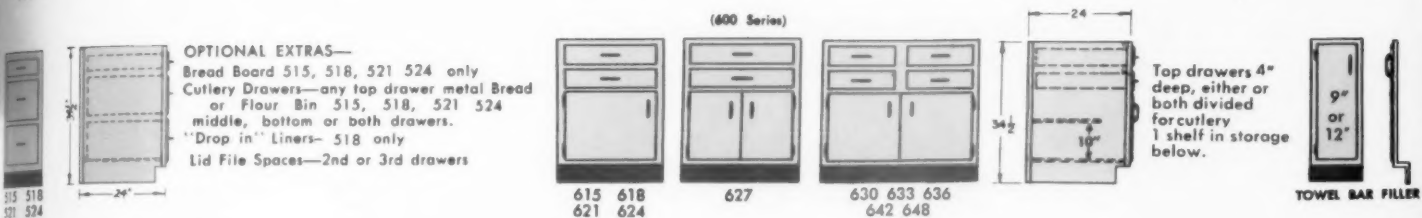
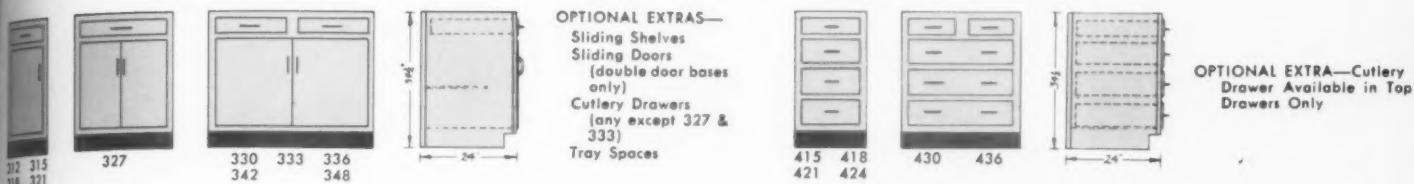
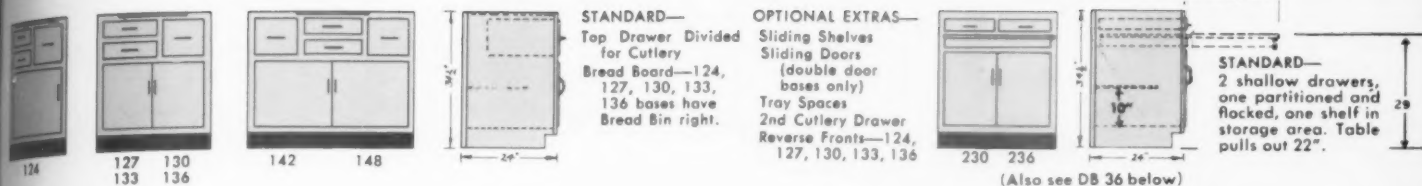


NEW KITCHEN IDEA BOOKLET

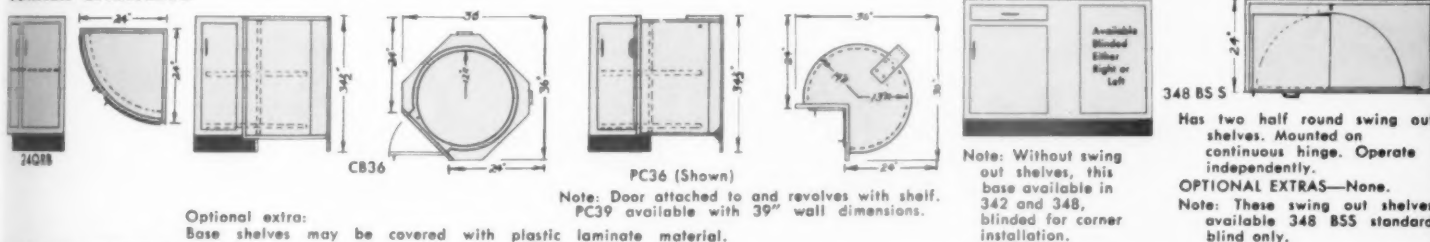
The continuous application of new Coppes Napanee ideas is incorporated in a new booklet, "Idea Kitchens and Kitchen Ideas." The book contains 28 pages, including many full-color, full pages of Coppes Napanee hardwood kitchens . . . various finishing combinations . . . unusual decorating touches . . . and novel convenience features. See your local Coppes Napanee dealer or write

COPPES, INC. Napanee, Ind.

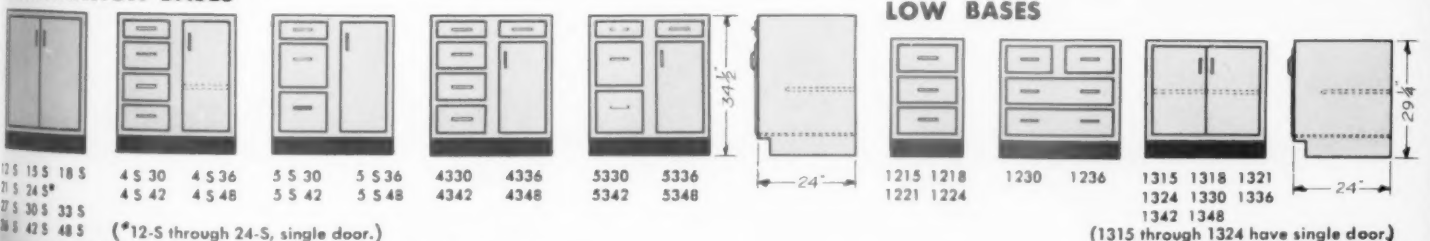
BASE CABINETS



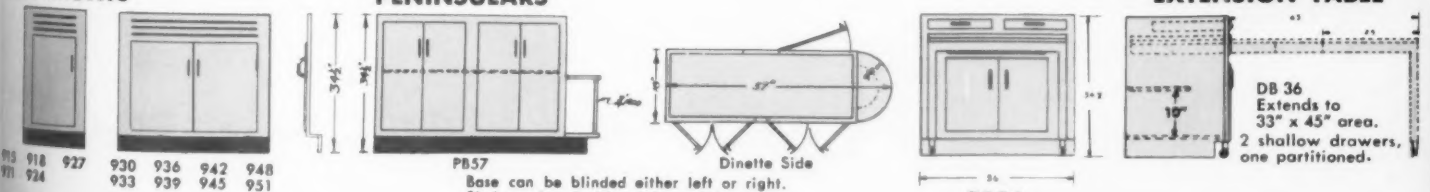
CORNER CABINETS



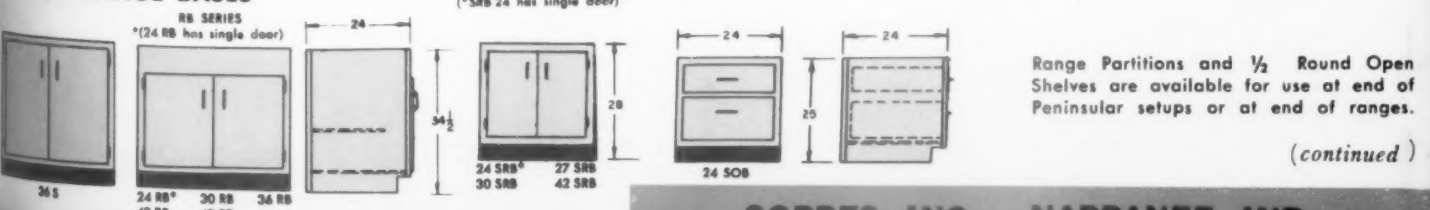
COMBINATION BASES



SINK FRONTS



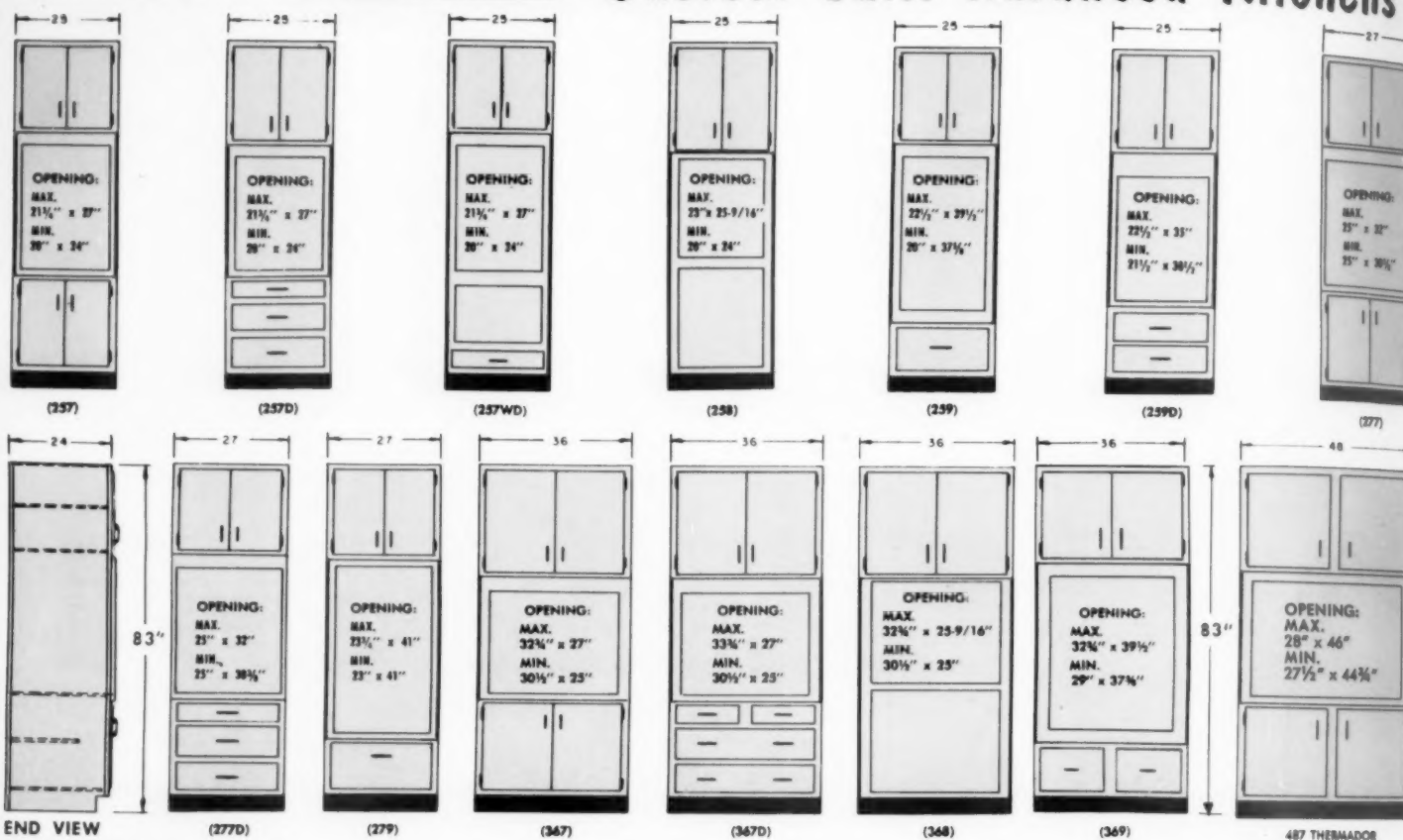
BUILT-IN RANGE BASES



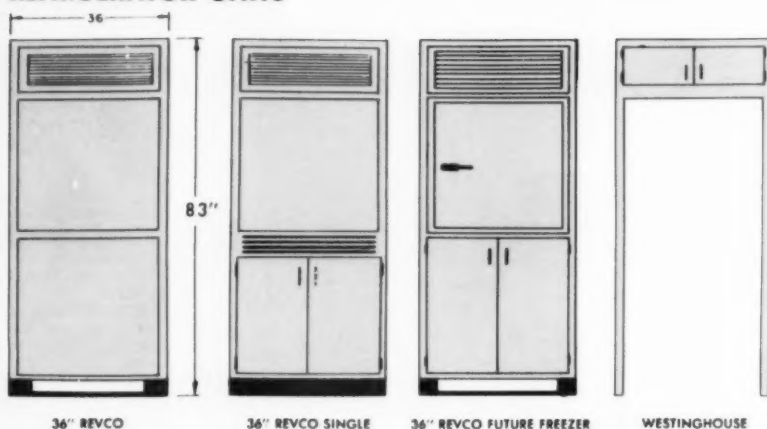
BUILT-IN OVENS



Custom built Hardwood Kitchens



REFRIGERATOR UNITS



EXTRAS & ACCESSORIES

In addition to all of the extras listed under "Wall Cabinet Extras", Coppes Napanee offers special units and accessories as listed below. (For complete list and drawings, contact your dealer).

- | | |
|---|---|
| Curved end units | Pot & Pan racks, vegetable bins, |
| Snack bars, "Islands" and Peninsulars. | bread and staple bins, sugar bins, |
| Lazy Susan, sliding and adjustable shelves. | flour bins and sifter, spice racks, |
| "Drop-in" metal liners. | towel racks, soap and dish cloth racks, wax paper and |
| Full height backsplashes and Counter tops in any shape and any combination of surfaces. | paper towel holders, cup racks, |
| | pan lid and knife racks, etc. |

Specifications subject to change without notice.

WRITE FOR NEW 20 PAGE DATA-FILE FOLDER containing detailed wall and base cabinet specifications — plus a complete listing of accessories and features.

Because Coppes Napanee hardwood kitchens are all Exclusively designed and completely custom built, new cabinet styles and sizes will always be available to accommodate all nationally known brands of "Built-in" oven, range, refrigerator, freezer, dishwasher and similar appliances. Manufacturers of these appliances are continually changing models and specifications, so keep in touch with your local dealer or Coppes, Inc. for latest model numbers.

Finishes

Maple Stains

Desert Sand

Modern

Fruitwood

Special finishes available at slight extra cost.

Hardware

PULLS — of die cast material in modern design 4 1/2" long.

HINGES — Institutional — 2 1/2" long of .072 material semi-concealed and are adjustable with 1/2" offset for lipped type doors.

CATCHES — Adjustable magnetic type furnished regular. Rubber roller type available on special order.

COPPES, INC.
Nappanee, Indiana

Mutschler
SERIES 500

specifications

Mutschler
SERIES 700

school
furniture

FOR:

Foods Laboratory
Laundry Area
Clothing Laboratory
Sewing Laboratory
Grooming Area
Home Management Area
Child Care Area
Arts And Crafts Room
General Storage Area
Teachers Lounge
Private Dining Room
Office And Reception Areas

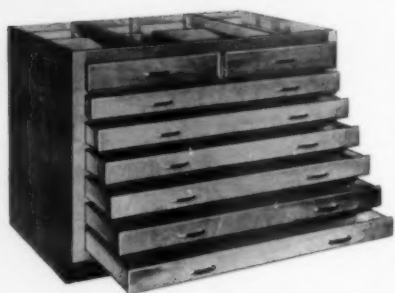
MUTSCHLER BROTHERS COMPANY

School Equipment Division • Nappanee, Indiana

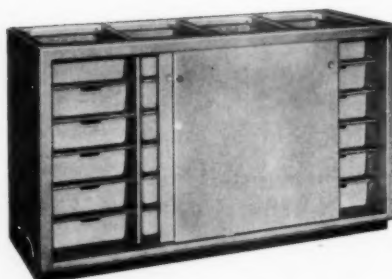
A.I.A. 35-E-12



SERIES 500 UNITS Pictured below are examples of cabinetwork specifically designed for arts and crafts rooms, clothing and foods laboratories. See following specification pages for complete listing of units available.



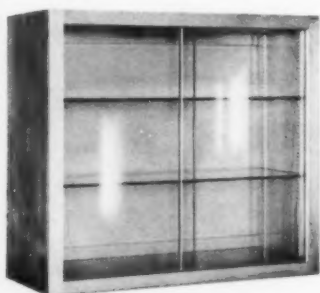
PAPER STORAGE BASE. MODEL A-B48-PS—Six full width drawers for storage of paper and two top drawers for other storage.



TOTE TRAY STORAGE BASE. MODEL H-3660-LT—Equipped with 24 removable fiberglass trays for individual storage. Sliding doors.



BASE UNIT. MODEL B27—A typical base unit. One deep and two shallow drawers. Adjustable sliding wire shelf.



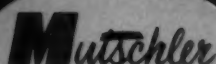
WALL STORAGE UNIT. MODEL A-3336-SG—For display or storage. Sliding glass doors, two adjustable shelves.



TOOL STORAGE UNIT. MODEL A-8348-TC—Two stationery and two hinged pegboards for easy accessibility of tools. Seven storage drawers.



TEACHER STORAGE UNIT. MODEL H-8352-TS—Provides for complete storage needs of instructor. Wardrobe, four file drawers, one full width drawer, two pull-out boards, shelving.



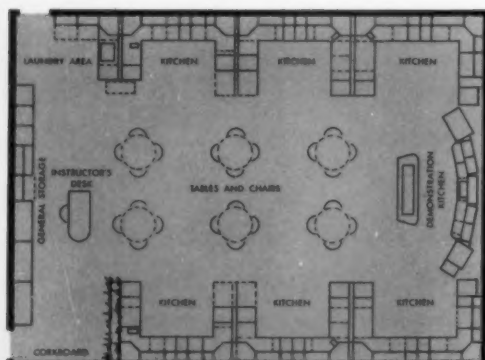
Paul McCobb



SERIES 700 UNITS A contemporary built-in group designed by Paul McCobb, internationally known furniture stylist, whose knowledge of space and proportion is combined with traditionally fine Mutschler craftsmanship to create a beautiful contemporary style cabinetry. Especially recommended for teachers' lounge and dining room, school offices and reception areas, as well as for foods laboratory and home management areas.

MUTSCHLER PLANNING SERVICES

The complexity of creating and equipping highly specialized departments for a modern school involves considerable time and attention to hundreds of seemingly minute details. Here's where Mutschler sales engineers are prepared to help you . . . to become your collaborators in creating. Planning and installation of school home making laboratories and arts and crafts rooms are their specialty. Latest educational requirements and equipment can be recommended from nationwide experience. These are services offered at no added expense when you specify Mutschler.

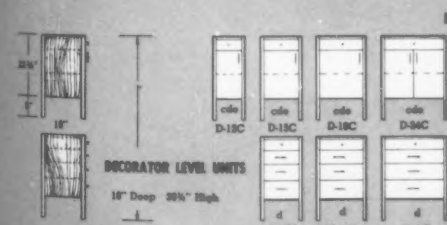
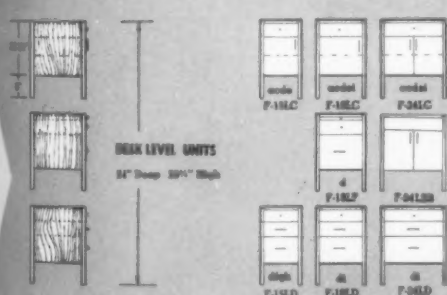
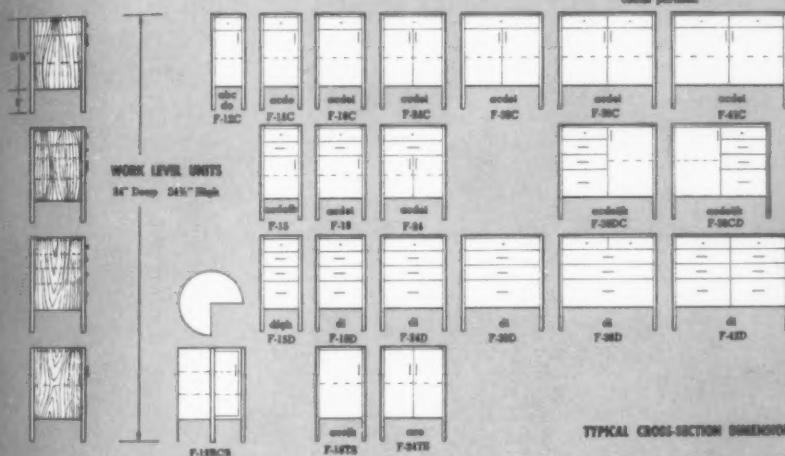
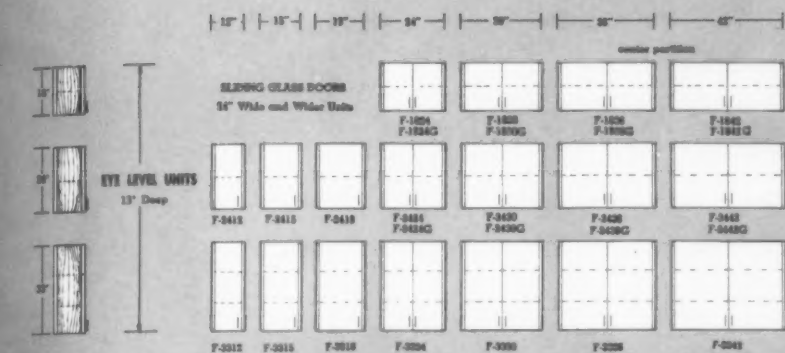




SERIES 700 GENERAL APPLICATION UNITS

Cabinet units delivered to job ready for installation, complete with doors and hardware. Satin aluminum or matched wood leg stanchions furnished in 6' and 9' lengths, trimmable to size on job. Kiln-dried solid core $\frac{1}{4}$ " maple plywood doors, ends and drawer fronts; three-ply backs and bottoms. DuPont "Dulux" natural grain and decorator color finishes. Compreg pulls and handles. Magnetic catches. Continuous $1\frac{1}{4}$ " counter tops of plastic laminates or stainless steel. Continuous $\frac{3}{4}$ " furniture tops of wood or plastic laminates. Inserts of solid maple cutting blocks or stainless steel sections for $1\frac{1}{4}$ " counter tops in any size. Floor units have $\frac{3}{4}$ " x $\frac{1}{2}$ " aluminum plate on bottom edges of doors and drawers to prevent damage from floor cleaning implements.

MUTSCHLER BROTHERS CO. • NAPPANEE, INDIANA

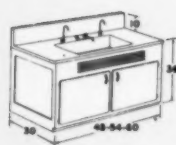




SERIES 500 ARTS AND CRAFTS UNITS

Delivered to job complete with doors ready for installation. Precision built of selected kiln-dried hardwood. Hollow core doors - - light weight permanent fit. Smooth 70 sheen synthetic enamel finishes in white and colors. DuPont Dulux for all natural wood finishes. Modern or traditional hardware. Rubber roller catches standard; magnetic catches optional at no extra cost. Units with dimensions other than shown below available as special units. Continuous counter tops of plastic laminates and stainless steel. Inserts of maple or stainless steel may be any size.

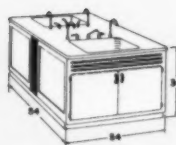
MUTSCHLER BROTHERS CO. • NAPPANEE, INDIANA



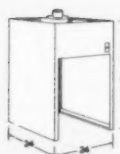
SINK BASE
No. A-42-52
No. A-54-52
No. A-66-52



INTERCEPTOR TRAP
No. A-1120-51



END PENINSULA UNIT
(Base 30 x 18 x 12)
No. A-524-57



COUNTER TOP SPRAY BOOTH
No. A-4724-58



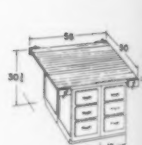
SPRAY BOOTH
No. A-4634-58



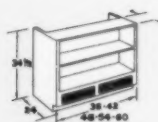
WORK BENCH
(With 30x42 base)
No. A-3024-59



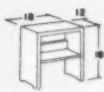
WORK BENCH
(With 30x42 base)
No. A-3024-59



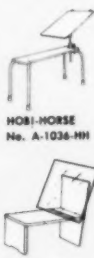
WORK BENCH
(With 30x42 base)
No. A-3024-59



RADIATOR INCLOSURE
No. A-830-51
No. A-840-51
No. A-850-51
No. A-860-51
No. A-870-51



ART BENCH
No. A-1171-52



ART HORSE
No. A-1130-51



DEEP OPEN SHELVING
No. A-8724-50
No. A-8734-50
No. A-8744-50



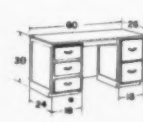
SHALLOW OPEN SHELVING
No. A-8724-50
No. A-8734-50
No. A-8744-50



SHOW CASE
No. A-3246-52



SECTIONAL STORAGE
No. A-8346-51



TEACHERS DESK
No. A-3046-51

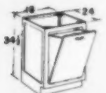


WORK TABLE
No. A-3046-51

ART TABLE
No. A-4000-57



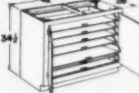
CLAY CART
No. A-3416-52



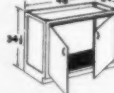
CLAY STORAGE BIN
No. A-812-52



CLAY STORAGE
No. A-811-52



SLIDING TRAYS
No. A-940-57



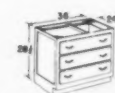
DRAWING BOARD STORAGE
No. A-940-58



LOW DRAWER STORAGE
No. A-812-52
No. A-824-52



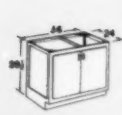
LOW FILE DRAWER
No. A-812-52
No. A-824-52



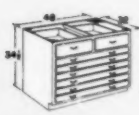
LOW DRAWER STORAGE
No. A-824-52



LOW TALL STORAGE
(One w/ shelf)
No. A-812-52
No. A-824-52



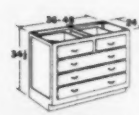
LOW TALL STORAGE
(One w/ shelf)
No. A-824-52



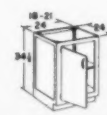
PAPER STORAGE
No. A-840-51



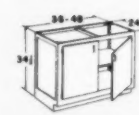
DRAWER STORAGE
No. A-824-52
No. A-834-52



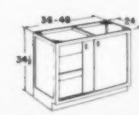
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No. A-834-52



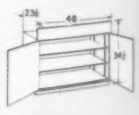
TALL STORAGE
(One w/ shelf)
No. A-812-52
No. A-824-52
No. A-834-52



TALL STORAGE
(One w/ shelf)
No. A-824-52
No. A-834-52



SLIDING TALL STORAGE
(One w/ shelf)
No. A-840-51
No. A-840-51



MOIST STORAGE
No. A-840-51



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



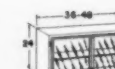
WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



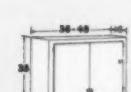
WALL CABINET
(Sliding glass doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding glass doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding glass doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



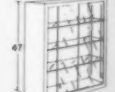
WALL CABINET
(Sliding glass doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding wood doors, one w/ shelf)
No. A-1024-57
No. A-1048-57



WALL CABINET
(Sliding glass doors, one w/ shelf)
No. A-1024-57
No. A-1048-57

NOTE: All specifications and materials subject to change without notice.

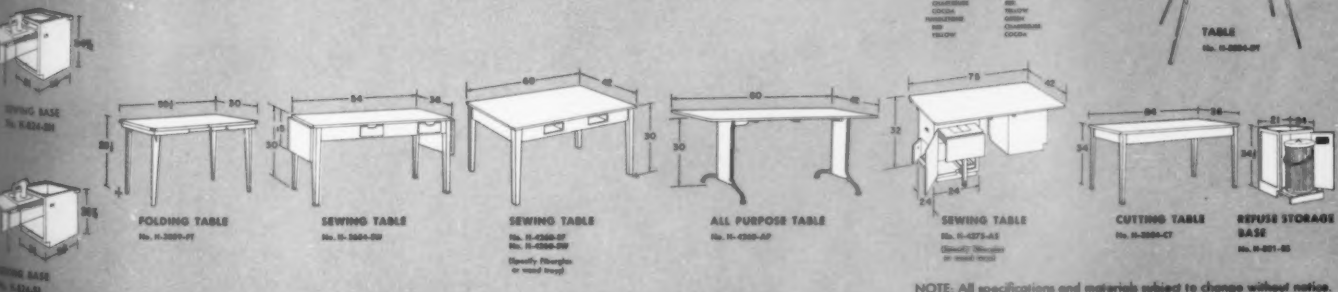
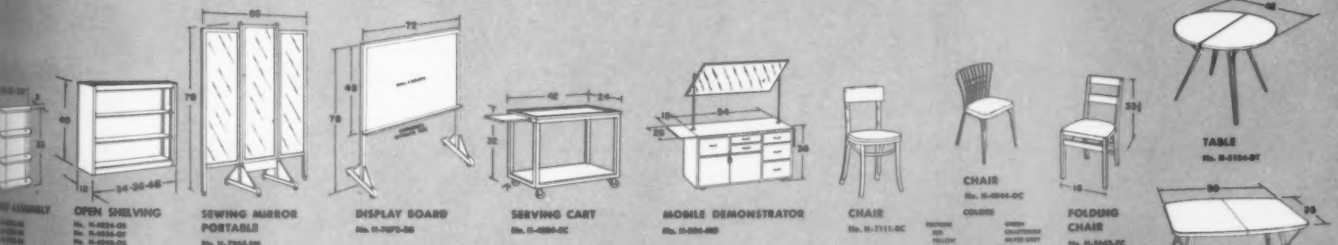
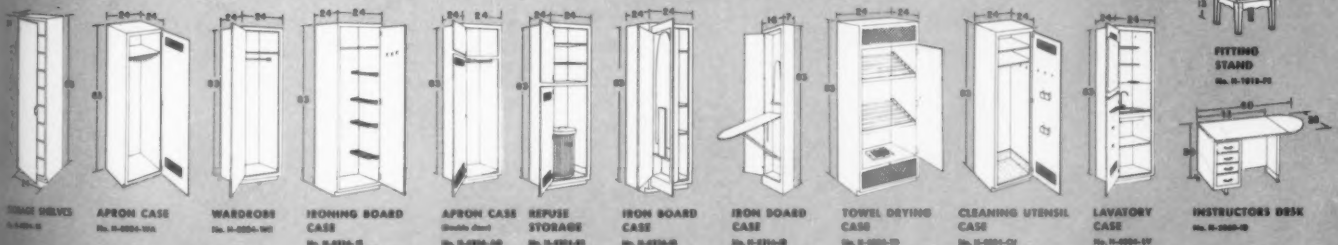
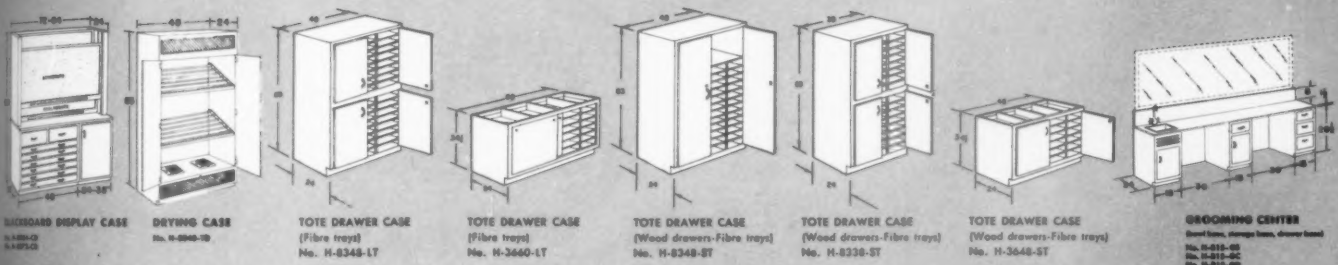
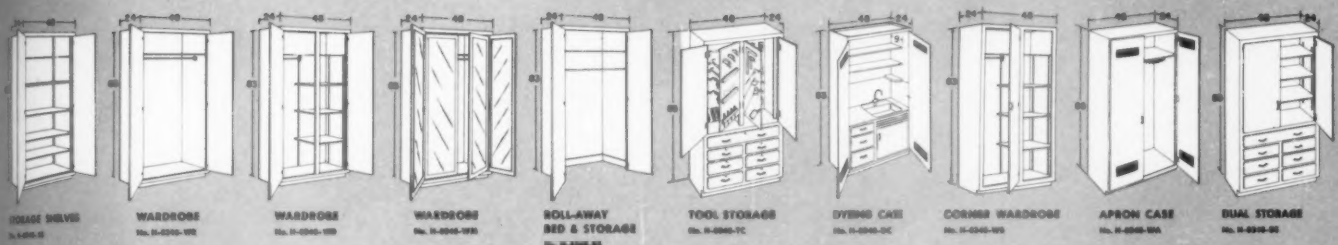


SERIES 500 CLOTHING LABORATORY UNITS

E-3/Mu

Delivered to job complete with doors ready for installation. Precision built of selected kiln-dried hardwood. Hollow core doors - light weight permanent fit. Smooth 70 sheen synthetic enamel finishes in white and colors. DuPont Dulux for all natural wood finishes. Modern or traditional hardware. Rubber roller catches standard; magnetic catches optional at no extra cost. Units with dimensions other than shown below available as special units. Continuous counter tops of plastic laminates and stainless steel. Inserts of maple or stainless steel may be any size.

MUTSCHLER BROTHERS CO. • NAPPANEE, INDIANA



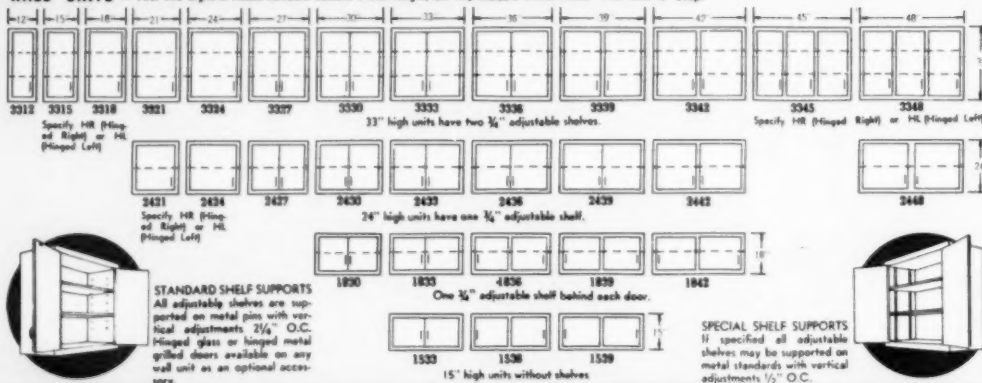
NOTE: All specifications and materials subject to change without notice.

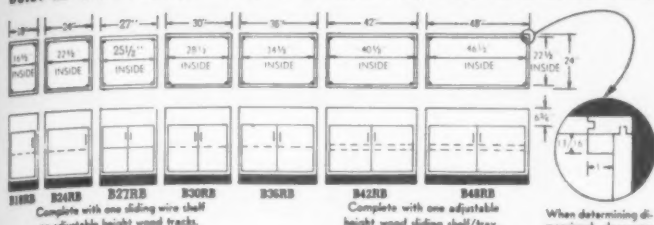
Mutschler

SERIES 500 FOODS LABORATORY UNITS

Delivered to job complete with doors ready for installation. Precision built of selected kiln-dried hardwood. Hollow core doors -- light weight permanent fit. Smooth 70 sheen synthetic enamel finishes in white and colors. DuPont Dulux for all natural wood finishes. Modern or traditional hardware. Rubber roller catches standard, magnetic catches optional at no extra cost. Units with dimensions other than shown below available as special units. Continuous counter tops of plastic laminates and stainless steel. Inserts of maple or stainless steel may be any size.

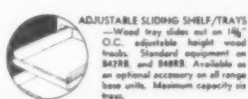
WALL UNITS



BUILT-IN RANGE UNITS—24" deep, 34 1/2" high. Top space 3" deep x 4" high. Model numbers indicate unit width.

Complete with one sliding wire shelf on adjustable height wood tracks.

Complete with one adjustable height wood sliding shelf/tray.

**SPECIAL PURPOSE RANGE UNITS**

24" deep, height and width as indicated. Top space 3" deep x 4" high.



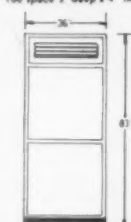
One adjustable sliding wire shelf. For Chambers four burner "On-a-top" cooking unit.

One adjustable sliding wire shelf behind each door. For Westinghouse four burner cooking unit.

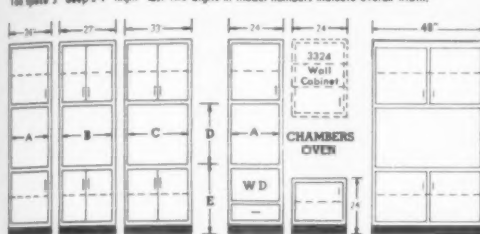
One adjustable wood sliding shelf/tray. For Westinghouse four burner cooking unit.

BUILT-IN REFRIGERATOR UNIT

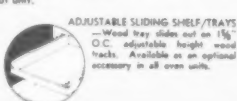
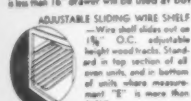
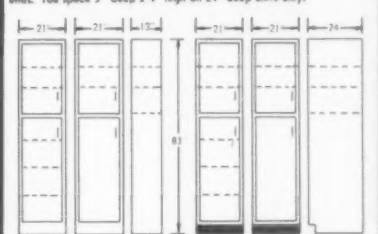
24" deep, 83" high. Top space 3" deep x 4" high.



U2436REV (2)
U2436REV (1)
U2436 REV (1) has two doors at bottom. Can be converted to U2436 REV (2).

BUILT-IN OVEN UNITS—24" deep, 83" high, unless specified otherwise. Top space 3" deep x 4" high. Last two digits in model numbers indicate overall width.

"A" Variable opening from 20 1/2" to 22 1/2".
"B" Variable opening from 23 1/2" to 25 1/2".
"C" Variable opening from 29 1/2" to 31 1/2".
"D" Variable height opening to receive any oven.
"E" If distance is less than 24 3/4" no shelf will be furnished. If distance is less than 16" drawer will be used at bottom of unit.

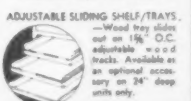
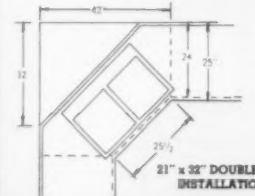
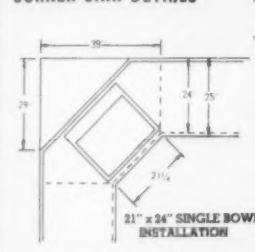
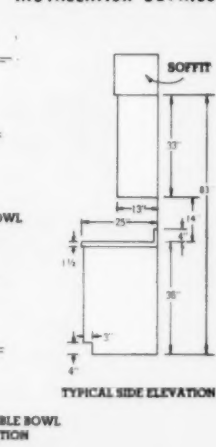
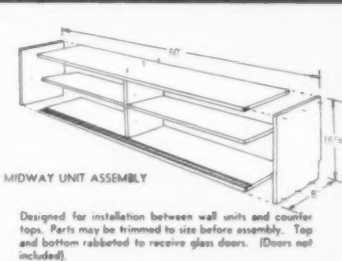
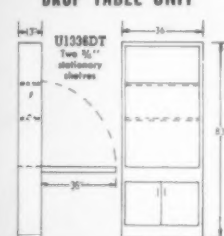
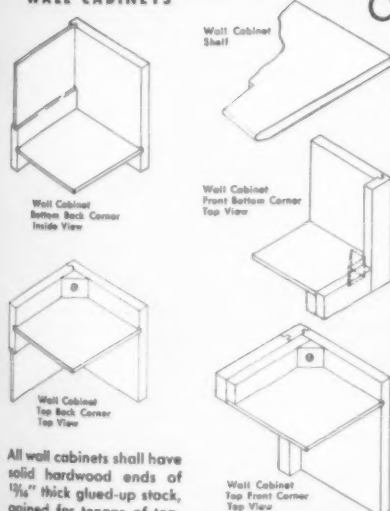
**UTILITY UNITS**—83" high, 21" wide, depth as indicated. Flush ends. Top space 3" deep x 4" high on 24" deep units only.

U1321D—Complete with one stationary shelf and five adjustable shelves on metal shelf supports.

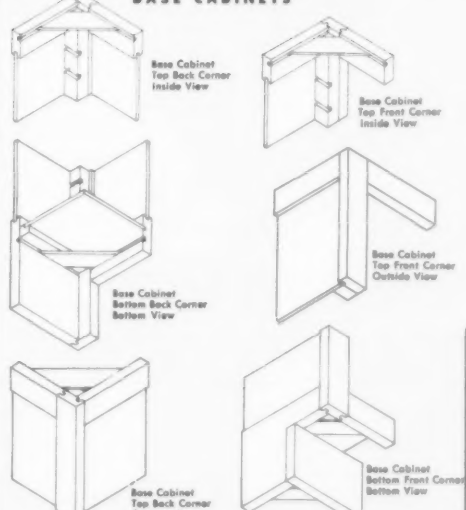
U1321B—Complete with one stationary, and two adjustable shelves.

U2421D—Complete with one stationary shelf and five sliding wire shelves on adjustable height wood tracks.

U2421B—Complete with one stationary shelf and two sliding wire shelves on adjustable height wood tracks.

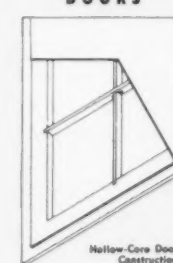
**CORNER SINK DETAILS****INSTALLATION DETAILS****DROP TABLE UNIT****TRADITIONAL WOOD DOORS AND DRAWERS****WALL CABINETS**

All wall cabinets shall have solid hardwood ends of 1 3/4" thick glued-up stock, gained for tenons of top, bottom and shelves. Top and bottom back rails shall be at least 3 7/8" wide and 1 3/4" thick stock and shall be tenoned to fit mortised end panel. One edge of back rail shall be grooved to take 3/4" thick top-to-bottom plywood panel. Back shall be 3/4" thick plywood fitted into groove in back rail and ends. Corners shall be reinforced with heavy blocks glued and screwed solidly into the corner position. Top and bottom front rails shall be reinforced with a 1 3/4" stiffening and supporting strip, glued and screwed and nailed to the top and bottom rails, to insure a permanently invisible face joint. All wall cabinets shall have adjustable shelves of 3/4" thickness. Top and bottom shall be solid material glued up of at least 3/4" thick finished stock.

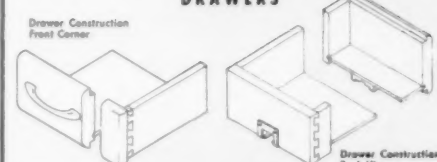
CONSTRUCTION DETAILS**BASE CABINETS**

All bases shall be constructed of genuine hardwood, kiln dried. All joints shall be mortised and tenoned. All corners shall be reinforced with mitered corner braces and further reinforced with heavy strips gained 1 3/4" O.C. to support adjustable wood track® running from top to bottom of cabinet, glued and nailed to front stile, reinforcing mortise and 1/2" plywood end panels. Back bottom support shall be glued and nailed to stile. Bottom back rail shall be grooved to receive 3/4" plywood panel, which is nailed to bottom end supports and front rail.

* Patent Applied For

DOORS

All doors on all cabinets shall be cross braced, hollow core doors. Front and back of doors shall be three-ply maple with single piece rotary cut faces.

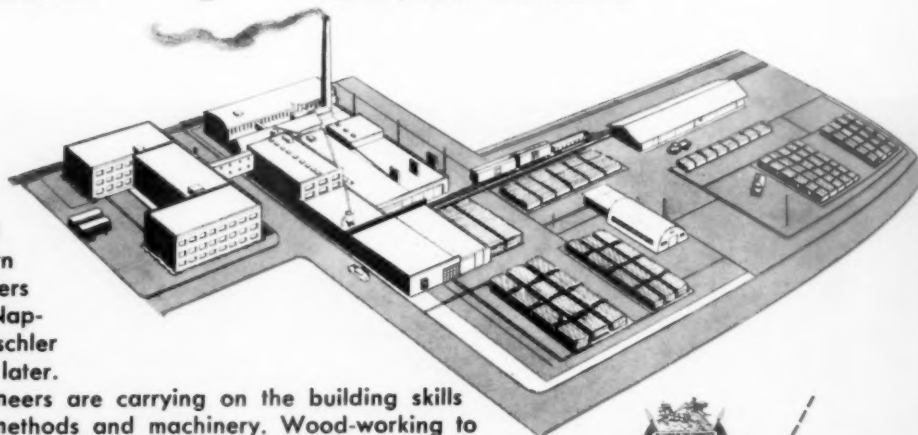
DRAWERS

All drawers shall be dovetailed front and back and securely glued. All sides shall be of hardwood at least 3/4" thick. All fronts and backs shall be of at least 3/4" thick hardwood stock. Bottom of drawers shall be 3/4" three-ply gum or maple plywood. All sides of the drawers shall be sanded and sharp corners removed. All drawers shall have varnished interiors. All drawers shall ride on center guide which shall have a metal clip on back of drawer to prevent tipping when extended from base. All drawers shall be provided with suitable metal drawer stops which shall also be removable to facilitate cleaning.

TYPICAL INSTALLATIONS OF MUTSCHLER SCHOOL FURNITURE

Molloy College for Women—Rockville Center, L. I., New York
 Unity High School—Tolono, Illinois
 Meadowbrook Junior High School—Johnson Co., Kansas
 Burger Junior High School—Garden City, Michigan
 Kentucky School for Deaf—Danville, Kentucky
 Wickliffe High School—Wickliffe, Ohio
 Michigan State University—East Lansing, Michigan
 Sullivan High School—Sullivan, Illinois
 East Junior High School—Newton, Kansas
 New Longston High School—Danville, Virginia
 Herricks Senior High School—New Hyde Park, New York
 Harrison Inter. School—Great Bend, Kansas
 Jr.-Sr. Memorial High School—East Paterson, New Jersey
 Columbus Senior High School—Columbus, Nebraska
 North Scott Comm. School—Eldridge, Iowa
 Central South Jr. High School—Kansas City, Missouri
 Parkville Sr. High School—Baltimore, Maryland
 Towson Junior High School—Baltimore Co., Maryland
 Glendora High School—Glendora, California
 Central High School—Baton Rouge, Louisiana
 Slippery Rock Area High School—Slippery Rock, Pennsylvania
 Hillard High School—Hillard, Ohio
 New Ridge Field High School—Ridge Field, New Jersey
 Grambling College—Grambling, Louisiana
 Shelbyville High School—Shelbyville, Indiana
 Olathe High School—Olathe, Kansas
 East Bay High School—Gibson, Florida
 Eastonlee Ele & High School—Eastonlee, Georgia
 Marshall High School—Plant City, Florida
 Turner County High School—Ashburn, Georgia
 Tecumseh Junior High School—Lafayette, Indiana
 School No. 74—Indianapolis, Indiana
 Rutland Junior High School—Rutland, Vermont
 New Concord High School—Concord, New Hampshire
 Flowing Wells Public School—Tucson, Arizona
 North High School—Minneapolis, Minnesota
 Park City High School District—Park City, Utah
 Lincoln County High School—Panama, Nevada
 Jackson Wilson High School—Jackson, Wyoming
 Sparks High School—Sparks, Nevada
 Frederick V. Conrad High School—West Hartford, Connecticut
 Cranston Senior High School—Cranston, Rhode Island
 Province Senior High School—Jackson, Mississippi
 George Tyler Elementary School Addition—Windsor, Virginia
 Central High School—La Crosse, Wisconsin
 Highland Junior High School—Bellevue, Washington
 Chief Sealt High School—Seattle, Washington
 Lee's Summit High School—Lee's Summit, Missouri
 Lake Air Junior High School—Waco, Texas

Claremont Jr. High School—Claremont, California
 Wisconsin State College—Stevens Point, Wisconsin
 Timmonsville Elem. School—Timmonsville, South Carolina
 Clio High School—Clio, Michigan
 Page Senior High School—Greensboro, North Carolina
 Nazareth Academy—Parma Heights, Ohio
 Lakewood High School—Lakewood, New Jersey
 Dike Community School—Dike, Iowa
 Medina Junior High School—Medina, New York
 Western Ky. State College, Bowling Green, Kentucky
 Shady Grove Junior High School—Ambler, Pennsylvania
 North Rowan High School—Spencer, North Carolina
 Bryan High School—Bryan, Ohio
 Troy Senior High School—Troy, Ohio
 East Peasboro High School—Enola, Pennsylvania
 South Cameron School—Creole, Louisiana
 Mankato State College—Mankato, Minnesota
 Rincon High School—Tucson, Arizona
 McMillan No. Junior High School—Omaha, Nebraska
 Lakewood High School—Lakewood, Colorado
 Wheatridge High School—Wheatridge, Colorado
 Saxe Junior High School—New Canaan, Connecticut
 Rockland High School—Ayer, Massachusetts
 Hillcrest Con. School—Sumpter, South Carolina
 N. J. State Teachers College—Montclair, New Jersey
 Reitz High School—Evansville, Indiana
 Iliion High School—Iliion, New York
 Naperville Elementary School—Naperville, Illinois
 North Junior High School—Omaha, Nebraska
 East Twp. High School—Buck Creek, Indiana
 Dexter High School—Dexter, Michigan
 Chas. J. Saks School—Stickney, Illinois
 University Junior High School—Waco, Texas
 Holly High School—Holly, Michigan
 Shawnee-Mission High School—Prairie Village, Kansas
 Iowa City Catholic High School—Iowa City, Iowa
 Sayville High School—Sayville, L. I., New York
 New Pottsgrove Jr. High School—Sanatoga, Pennsylvania
 Sequoyah Junior High School—Dallas, Texas
 Wicomico Sr. High School—Salisbury, Maine
 Rutland Jr. High School—Rutland, Vermont
 New Concord Jr. High School—Concord, New Hampshire
 School Dist. No. 201 High School—Preston, Idaho
 Granite School Dist. Whse.—Salt Lake City, Utah
 New Jr. High School—Butte, Montana
 Benedictine Hts. College—Tulsa, Oklahoma
 Tomlinson Jr. High School—Lawton, Oklahoma
 Immaculate High School & Jr. College—Washington, D. C.
 Eastern High School—Washington, D. C.



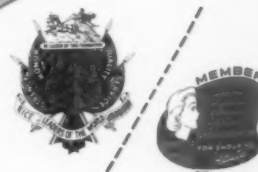
In 1874, tracks for the Baltimore & Ohio railroad were laid across the marshes and through the hardwood forests of northern Indiana. Soon, hardy Dutch and Swiss settlers followed westward to found the town of Nappanee...to build the sawmill from which Mutschler Brothers Company originated several years later.

Today, descendants of these same early pioneers are carrying on the building skills of their forefathers with the help of modern methods and machinery. Wood-working to them is more than mere employment, it is virtually a way of life.

This in no small measure accounts for the sturdy craftsmanship of Mutschler products, and for their ready acceptance by those who recognize that quality does not necessarily mean a high price tag.

MUTSCHLER BROTHERS COMPANY, Nappanee, Indiana

Assembly Plants in: Boston, Massachusetts • Oakland Park, Florida • San Francisco, Calif.

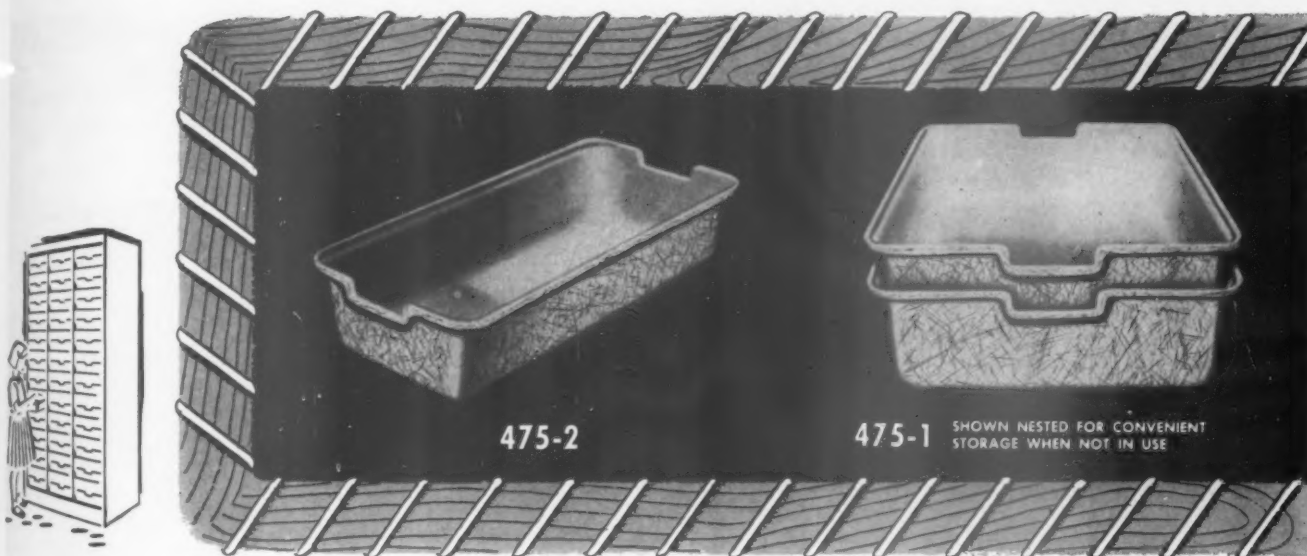


Membership-by-invitation in the
 "Rice Leaders of the World Association"
 —Charter member of the "National
 Institute of Wood Kitchen Cabinets."

MOLDED FIBER GLASS TRAY COMPANY

Linesville, Pa.

TOTELINE SCHOOL TRAYS OF MOLDED FIBERGLASS



Molded fiberglass trays are lightweight, yet they are rigid, sturdy, and last indefinitely. They clean easily—just dip in warm water.

The modern design and smooth surface of Toteline trays make them ideal for any classroom use.

	No. 475-1	No. 475-2
Length, Overall	19 1/2"	19 1/2"
Width, Overall	13 1/2"	9 1/2"
Depth, Overall	4 1/2"	4 1/8"
No. Per Carton	12	12

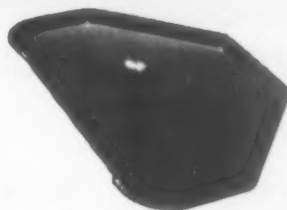
Colors: Normally furnished in pebble beige as shown. Also available in pale green, blue, yellow, grey and pink.

COLORFUL TOTELINE SERVING TRAYS



Colorful, long-lasting Toteline serving trays are easy to clean—just rinse them in steam, hot water, or detergent—they dry faster, too. And they're quieter.

Standard sizes—10 x 14, 12 x 16, 14 x 18, 16 x 22, 18 x 26, 9 x 26, 11" round.



Diners eat directly from Toteline Space-Saver trays so when dinner is finished the entire tray plus the dishes are removed in one bussing.

Because Space-Saver trays are self-bussing, aisles between tables can be narrowed considerably. You'll seat 20% more diners in your cafeteria. Tray size 22 1/8" x 14".



TOTELINE

MOLDED FIBER GLASS TRAY COMPANY
LINESVILLE, PA.

OFFICES IN PRINCIPAL CITIES AND CANADA

World's largest producer of reinforced plastic trays and toteboxes.

For more information and price see your local school supply or restaurant equipment dealer. Or please write Toteline.

SUPERIOR SLEEPRITE CORP.

CONTRACT DIVISION

759 S. Washtenaw Ave., Chicago 12, Illinois

ANNOUNCING

SKANDIA®

METAL FURNITURE
BY SUPERIOR SLEEPRITE CORP.
NEWEST FOR SCHOOLS
AND COLLEGES!



AN ALL-AMERICAN FAVORITE BECAUSE OF

- its easily arranged modular design
- its time-saving maintenance
- its surprisingly low cost

- its beautifully designed modern lines
- its distinctive touch of elegance
- its rugged, simplified steel construction

Deluxe features are evident in every SKANDIA product. All drawers are recessed, sliding quietly on nylon rollers. All are sound deadened with undercoating and are available with plastic tops. In addition to school dormitory pieces illustrated, the complete line includes equally suitable pieces for hotels, motels, hospitals and other institutions.

ITEM NO.	LEFT TO RIGHT, ABOVE:	HEIGHT	DEPTH	WIDTH
CT 450-20	Two Drawer, one door Bedside Cabinet	30"	19"	19"
CT 450-7	Desk with one drawer	30"	19"	29¼"
CT 9113	Desk Chair	30"	20"	18½"
CT 450-14	Bedside Stand—One drawer	30"	19"	19"
CT 450-50-6A	Dormitory Bed (slat band spring) 3/0	—	—	—
CT 180	Chest O'Bed Drawers	6"	17"	27½"
CT 450-16	Six Drawer Chest	41½"	19"	29¼"
CT 9112	Captain's Chair	27"	20½"	24"

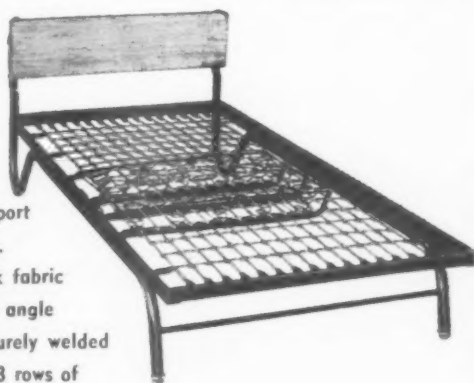
AMERICAN SCHOOL AND UNIVERSITY—1958-59

THE SUPERIOR SLEEPRITE CORPORATION

CT
SYRACUSE
BED

Legs and headboard support of 1 1/4" tubing. Galvanized link fabric spring in heavy angle iron frame securely welded to tubing with 3 rows of single-deck coils in center section.

Black enamel finish. 1" thick birch headboard in natural wood finish. 3/0 width. Also available with No-Sag spring at slight additional cost.

SKANDIA
BUNK BED

A space-saving masterpiece

36" wide, 62" high, 76 1/2" long (inside). Sturdy 1 1/2" square tubing with open panel ends and double hook corner locks.

CT 450-60-1 with 2 link fabric springs.

CT 450-60/6 with 2 slat band springs.

CT 180 Chest-O-Bed section (shown on bottom spring).

CT 7-Posture Coil Section (shown on top spring).

(Also available in "No-Sag" NS 9)

CT 956/9177
FOLDING COT

With standard spring, adjustable for two back-rest lounge positions. Innerspring mattress with 6-1/5 oz. ACA ticking. 6" diameter wheels for easier, silent rolling.

CT 956/9179

—With impregnated plastic mattress ticking.



THE BIG 4

SLEEP EQUIPMENT

BY SUPERIOR *Sleeprite*

We know your needs and fill them — with the best quality products available anywhere at the price. Here's proof!

CT 7800 NS CARBONDALE DOUBLE DECK
CONVERTIBLE BUNK BED

Round tubular end posts 1 1/2" diameter with 7/8" stretchers. 3-piece, No-Sag springs and birchwood panels in natural finish. 3/0 width.

CONTRACT DIVISION

SUPERIOR *Sleeprite* CORPORATION

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759 South Washtenaw Avenue
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Telephone NEVada 2-4545

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DISPLAY ROOMS In

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SINGER SEWING MACHINE CO.

149 Broadway, New York 6, N. Y.

Make your classroom roomier with 3-WAY **SINGER** SEWING DESKS



It's a sewing desk...



It's a cutting table...



It's a study desk!

You'll accommodate more students in less space—comfortably, efficiently—with the new SINGER Sewing Desks.

Because with a SINGER 3-way Desk

you eliminate the need for additional cutting tables and study desks.

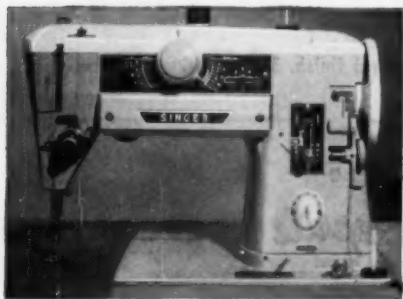
For sewing... the built-in SINGER* Sewing Machine is placed so you have a

full 18 $\frac{1}{8}$ " to the left of the needle.

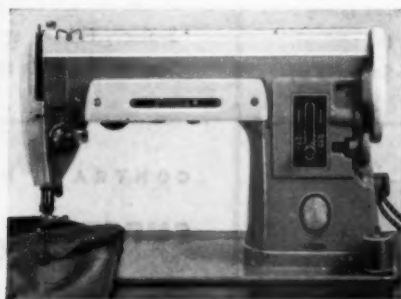
For cutting... machine lowers out of sight, and drop leaf opens to a generous 43" by 37 $\frac{3}{8}$ " surface.

For studying... drop leaf folds back and you have a perfectly smooth 43" by 18 $\frac{3}{4}$ " study desk.

And you can have your choice of Straight-Needle, Slant-Needle or Slant-O-Matic SINGER Sewing Machine heads.



New Slant-O-Matic 401, only combination Slant-Needle and automatic zigzag machine! Finest straight stitching and fancy stitching just by "tuning" a knob.



Slant-Needle 301, a truly practical machine! Slant-Needle affords superior sewing visibility. Other new features such as fully enclosed direct motor drive.

Available at the regular school discount...

Write to SINGER SEWING MACHINE CO., Educational Department, 149 Broadway, New York 6, N. Y. for *free* folder with details about the 3-way Sewing Desk and suggested classroom layouts.



SINGER SEWING CENTERS

Listed in your phone book under SINGER SEWING MACHINE CO.

*A Trademark of THE SINGER MANUFACTURING COMPANY



simplify dormitory planning with Dorm Line by Simmons



Colorful, enjoyable-to-live-with Simmons Dorm Line room in new men's dormitory, Quincy College, Quincy, Ill.

Today schools and colleges are finding the answer to simplified dormitory planning and financing with a new, more versatile line of quality furniture. It is Simmons Dorm Line.

Approved financing: Here's furniture that long outlasts the loan! Dorm Line wardrobes, chests and desks—even beds—are built-in to qualify for long-term government financing.

Simplified planning: Simmons Dorm Line utilizes a new,

complete group of furniture components, with almost limitless combinations. Dorm Line, designed by Raymond Spilman, A.S.I.D., gives more living space to average dorm rooms because of its simplicity and compactness. Built-in wardrobes, with integral chests, provide space-saving storage.

Colorful and graceful, Dorm Line furniture is pleasing to the eye, enjoyable to live with, easy to maintain. Complete information is yours for the asking.

DISPLAY ROOMS: Chicago • New York • San Francisco
Atlanta • Dallas • Columbus
Los Angeles



SIMMONS COMPANY
CONTRACT DIVISION

Merchandise Mart • Chicago 54, Illinois

it's so simple and satisfying to design rooms with Simmons

The contemporary beauty of Dorm Line units meets the desires for attractive, colorful rooms. There's fresh, new appeal in the wide range of unit combinations and variations in color harmonies.

You avoid an "institutional look" because Dorm Line gives you versatility and flexibility. Although you start with one standard line, the combination of units, colors, finishes and upholstered materials achieves scores of individual room treatments.

Durability? Simmons furniture of all-welded steel construction is practically indestructible. Steel-framed, built-in wardrobes and chests retain their beauty and

utility longer than ordinary wood construction. That means low maintenance and low replacement costs.

On the vital problem of costs, the compactness and efficiency of Dorm Line units save costs from the very start of dormitory construction. Rooms may be smaller, more compact, without loss of spaciousness. And all units except seating can qualify as built-ins to meet government loan requirements.

In addition to built-in units, Simmons offers a complete line of free-standing furniture. Desks, chairs, beds and dressers can be coordinated in design colors to match wardrobes and chests.

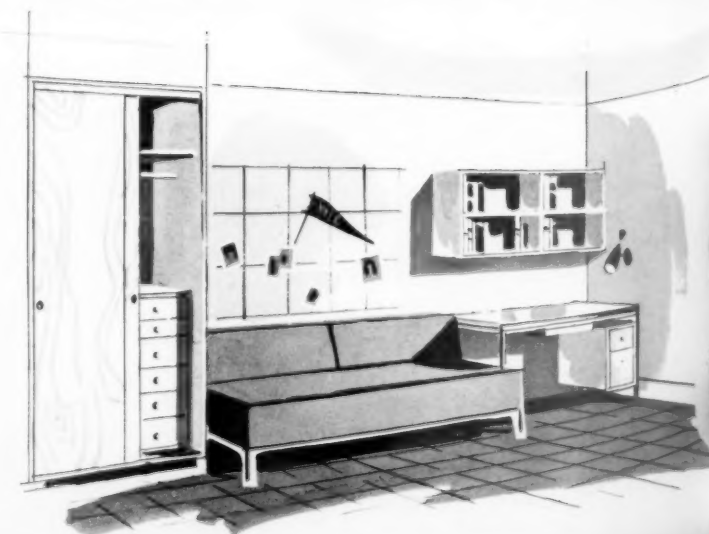
look at the versatility of Dorm Line

Notice particularly the interesting arrangements of built-in units. They go in as corner units, wall units or units used as wall partitions. Each variation permits new arrangements. Beds, desks, dressers may be partially recessed, placed side by side or back to back, or separated for semiprivacy. Then color goes to work to add more interest and variety to each room. Almost like magic, Dorm Line turns a plain room into colorful, handsome living-study-sleep room.



consider the quality control with Dorm Line

From room to room you maintain consistent construction quality. Dorm Line units are always the size specified. Steel frames can never warp; wardrobe doors won't sag or stick; steel drawers always stay in line—work easily, smoothly for years and years. And steel-framed, built-in Dorm Line units retain their beauty longer than ordinary wood construction. Standardized, prefab construction saves installation costs, too.

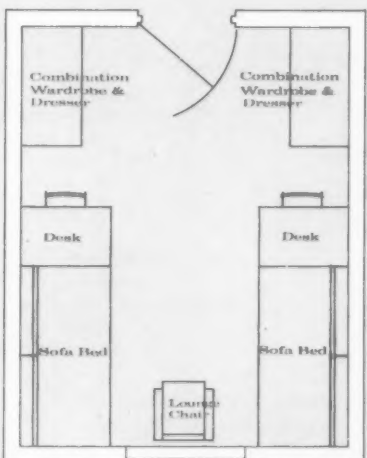
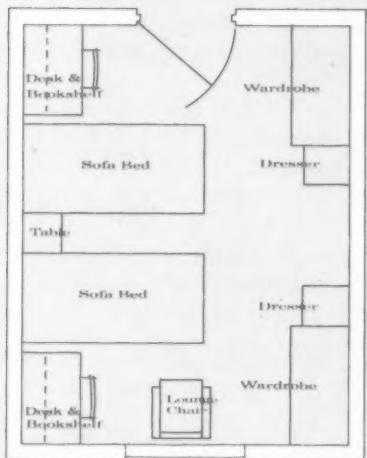
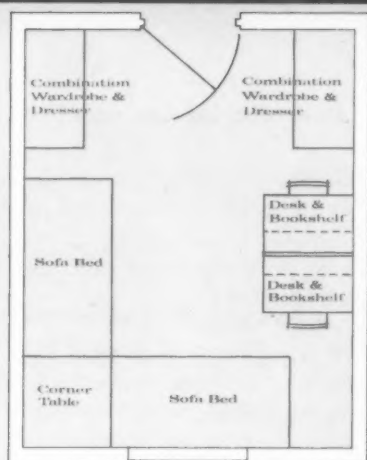


n ro ons Line

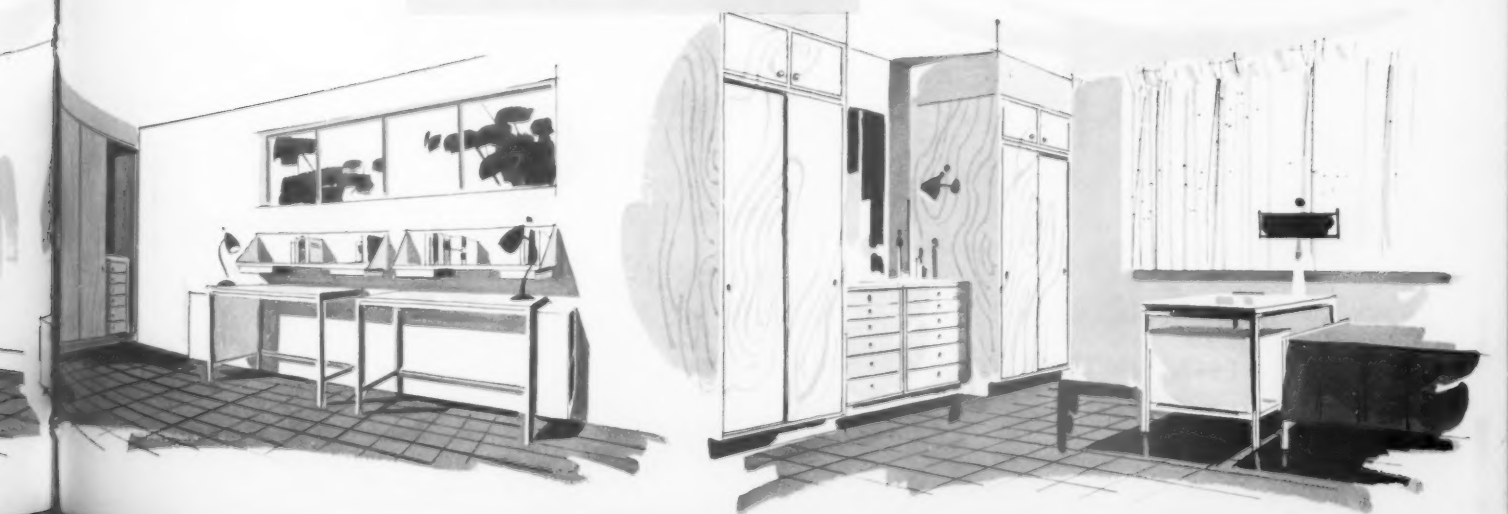
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Three floor plans of the same room, with different arrangements, illustrate the Dorm Line versatility. Rooms may be laid out in standard shapes and sizes to save costs; yet, they achieve colorful individuality when Dorm Line units go in.



construction features of Dorm Line built-in units

Welded steel frames throughout are precision-built...never vary in size or shape. This sky-scraper construction means that wardrobes can have strength without bulk. Steel-framed wardrobes provide more usable space in less area than conventionally wood-framed, built-in constructions. They're built to withstand hard use. Years after installation, they will be as firm and rigid as the day they were installed.

Steel bases anchor firmly to the floor to support the weight of wardrobe, chest placed inside, a full complement of clothes, suitcases, sport equipment...and the heaviest football player who may step on the wardrobe floor.

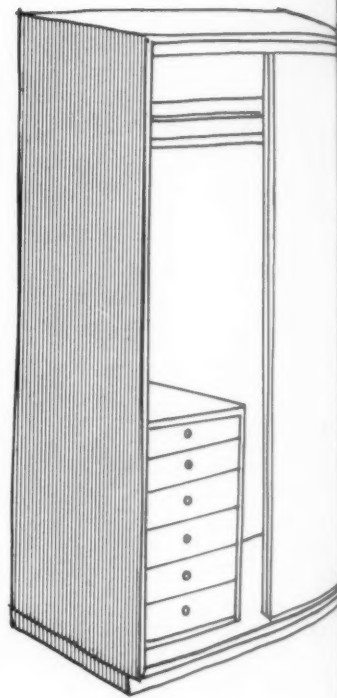
Hinged doors with flush ring-type hardware give easy access to the top shelf of four-door units. Storage of suitcases and other bulky pieces will be easy. Magnetic catches hold the doors closed, permit them to be opened quickly and without effort.

Sliding doors are hung with Stanley sliding door hardware consisting of nylon rollers in

anodized aluminum tracks. Suspension hardware is fully adjustable so doors may be hung to slide effortlessly and quietly. They will always hang perfectly perpendicular and slide without binding.

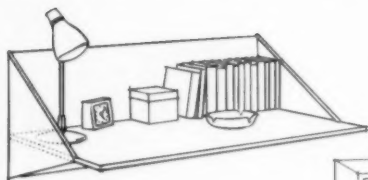
Sides and doors are of Novoply, proved to be the most stable material for this type of construction. Novoply, being practically free from warp, can be counted on to retain its size and shape in all climates. Sides and doors of Simmons Dorm Line wardrobes are available finished with clear lacquer, painted any of the Simmons colors, or they may be ordered with birch facing for the look of real wood.

Drawers of chests are built to the highest Simmons standards. Nylon rollers and stops assure smooth, quiet operation. Drawers cannot be pulled out of chest accidentally, will never warp or sag, are impervious to changes in heat or humidity, and are easily kept clean. Finger holes replace the usual projecting and easily broken pulls.



HF-830 Chest—16 3/4 x 18 x 36 in.
HF-831 Chest—22 3/4 x 18 x 36 in.
HF-800 Wardrobe—36 x 24 x 92 1/2 in.
HF-810 Wardrobe—48 x 24 x 92 1/2 in.

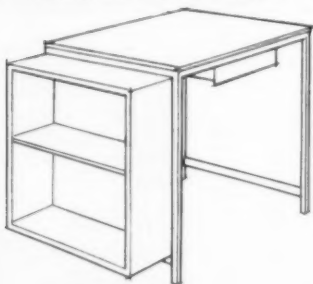
A FEW OF THE UNITS FROM SIMMONS DORM LINE



F-344 Wall Desk



F-222 Book Shelf with
F-41 Letter Bin and F-42 Drawer



F-2436-103 Desk

HF-801 Wardrobe—
36 x 24 x 92 1/2 in.

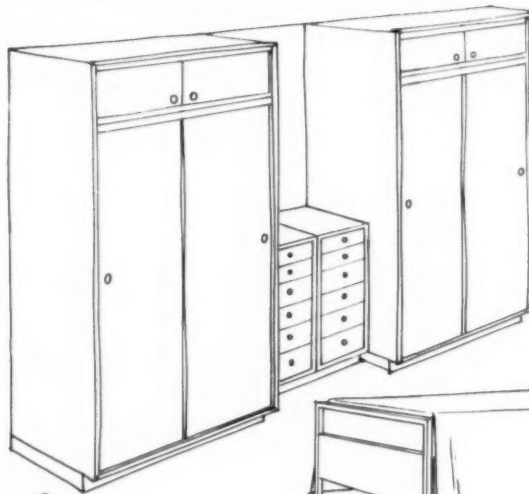
HF-811 Wardrobe—
48 x 24 x 92 1/2 in.



F-153-5 Chest



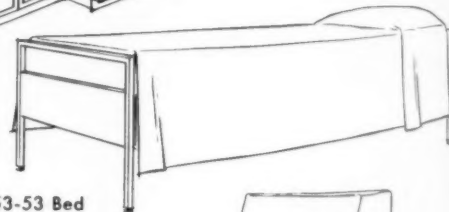
F-786 Chair



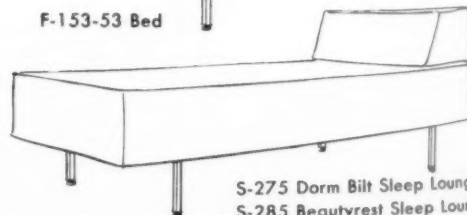
F-785 Chair



F-790 Arm Chair



F-153-53 Bed



S-275 Dorm Bilt Sleep Lounge
S-285 Beautyrest Sleep Lounge



SIMMONS COMPANY
CONTRACT DIVISION

Merchandise Mart • Chicago 54, Illinois

Dorm Line units include built-ins...wardrobes and chests...and free-standing furniture—Slimline desks, chairs, dressers and beds. Dorm Line is designed for Simmons by Raymond Spilman, A.S.I.D. For complete descriptions and specifications, write for catalog.

F SCIENCE—SHOPS

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Klett Manufacturing Co.

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F 603

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Johns-Manville
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Laboratory Furniture Company, Inc.
Lord and Burnham
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F-2/Ke
F-2/Me
F 604
F 602
F 605
F 607
F 608, 609
F 606

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Harrop Electric Furnace Division, Harrop Ceramic Service Co.
The R. K. LeBlond Machine Tool Company
Logan Engineering Co.
The Lufkin Rule Company
Millers Falls Company
Oliver Machinery Company
Stacor Equipment Company
The L. S. Starrett Co.
U. S. Burke Machine Tool Div.

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F-3/Sh
F-3/So
F-3/SPS
F-3/To
F 618, 619
F 613, 614
F 622, 623
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F 612
F 616
F 624
F 625
F 617
F 626

4. Lockers & Locks

DeBourgh Manufacturing Co.
Dudley Lock Corporation
Lyon Metal Products, Incorporated
Master Lock Company
National Lock Company

F-4/De
F 627
F 630, 631
F 628
F 629

Note: Manufacturers represented with complete catalogs are listed in bold face.





standardized
electronics training
program

PHILCO CORPORATION



Philco standardized electronics training program...

In this present electronics age, with new developments occurring at a rapid rate, the need for more effective electronics training has become increasingly important. The **PHILCO STANDARDIZED ELECTRONICS TRAINING PROGRAM** provides complete and effective training for all levels of electronics skill. The following is a description of the **PHILCO STANDARDIZED ELECTRONICS TRAINING MATERIALS** which are an essential part of the complete **PHILCO PROGRAM**.

the Philco electronics fundamentals units

The Philco Electronics Fundamentals Units consist of four fundamentals panels with accessory kit, designed for the study of basic electrical and electronics concepts. Each of the panels is constructed of aluminum with diagrams and/or designations applied in black over a yellow, baked-enamel front surface, with protective coating of clear lacquer. The color has been chosen for good contrast and

The **PHILCO STANDARDIZED ELECTRONICS TRAINING PROGRAM**, designed and engineered by electronics training specialists, provides all of the requirements for complete, standardized electronics training with three of the basic points of superiority described as follows:

1. The **PHILCO STANDARDIZED ELECTRONICS TRAINING MATERIALS**, designed and built by **PHILCO**, are composed of two major groups of equipment. One group makes available to the instructor a means of teaching and demonstrating working electronic circuits and systems to his class. The other group provides the student with the equipment for learning by actual laboratory practice that parallels the instructor's lecture demonstrations.
2. The **PHILCO STANDARDIZED TRAINING COURSE MATERIAL** has been developed and written by **PHILCO'S** elec-

ease in viewing the panels from all parts of an average classroom. The Accessory Kit contains the required components, cables, and fittings for use with the four Fundamentals Units. The Electronics Fundamentals Units have been designed for use by the electronics instructor in the classroom, and the student in performing laboratory experiments, demonstrating electrical and electronics principles pertinent



tronics training experts to meet specific training objectives, to fit any reasonable time schedule, and to start at any skill level.

3. **PHILCO INSTRUCTOR INDOCTRINATION** is available at Philco TechRep Division Headquarters. A one week course thoroughly grounds the instructor in the use and application of the **PHILCO TRAINING MATERIALS** as part of the complete **PHILCO PROGRAM**. After indoctrination, the instructor is able to apply the **PHILCO PROGRAM** to any electronics problem. The indoctrination program is available at a very reasonable cost.

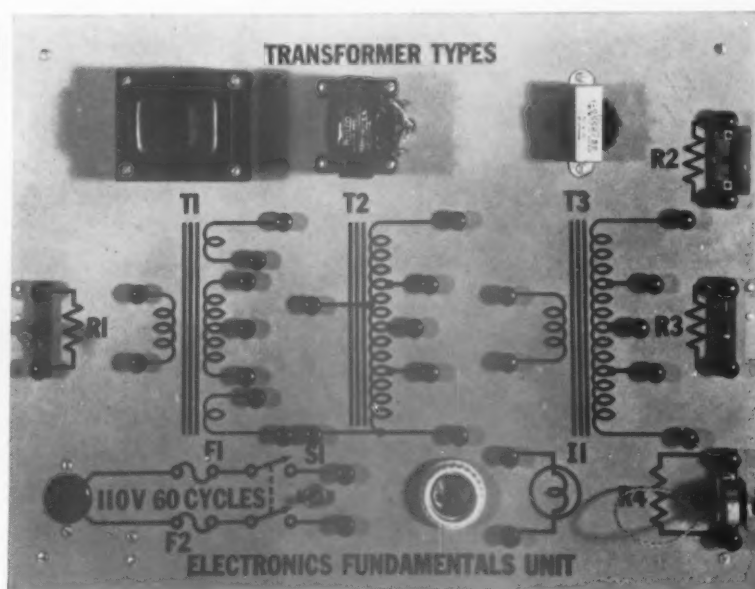
The **PHILCO PROGRAM**, being particularly adaptable to formal classroom instruction, has set the pattern for a standardized program of electronics training—training that can be reproduced anywhere.

The **PHILCO STANDARDIZED ELECTRONICS TRAINING MATERIALS** include

two general categories of equipment: (1) the **Lecture Demonstration Units** for classroom use by the instructor and (2) the **Laboratory Circuit Analysis Chassis** for use by the student in the performance of laboratory practice. Additionally, there are the **Electronics Fundamentals Units**, for early phases of training, which are designed for use by the individual student in laboratory practice as well as by the instructor in performing classroom demonstrations.

The **PHILCO STANDARDIZED ELECTRONICS TRAINING MATERIALS** cover all levels and phases of electronic training from such fundamental ideas as Ohm's Law through complete operating microwave and radar systems. Included are specific sections relating to frequency modulation, amplitude modulation, pulse techniques, communication, sonar, synchro, microwave and radar (transmission and reception) and specialized test equipment associated with microwave and radar systems.

to radio and electronics systems. They provide for the study of a-c and d-c circuits, vacuum-tube characteristics, RCL measurements, components recognition, color codes, transformer types and characteristics as well as other fundamental electrical and electronics information.





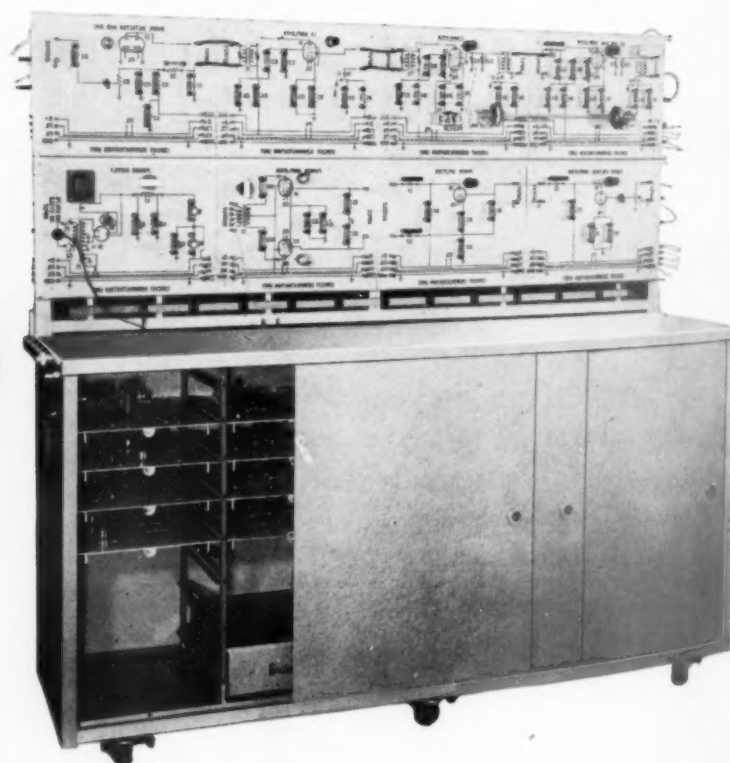
the Philco lecture demonstration unit

The Philco Lecture Demonstration Unit consists of a Lecture Demonstration Console complete with the Circuit Demonstration Panels which it is designed to store and display. It is designed for use by the electronics instructor to teach and demonstrate live, working electronic circuits and systems in the classroom.



the Philco lecture demonstration console

The exhibition and storage of the Circuit Demonstration Panels is accomplished by means of the Lecture Demonstration Console. This movable steel rack is designed to display the Panels in a vertical position at a height best suited for easy viewing by the students and at a height that is also convenient for the instructor when making classroom demonstrations. The lower portion of the Console is a cabinet, with shelves and sliding doors, for storing the Circuit Demonstration Panels.



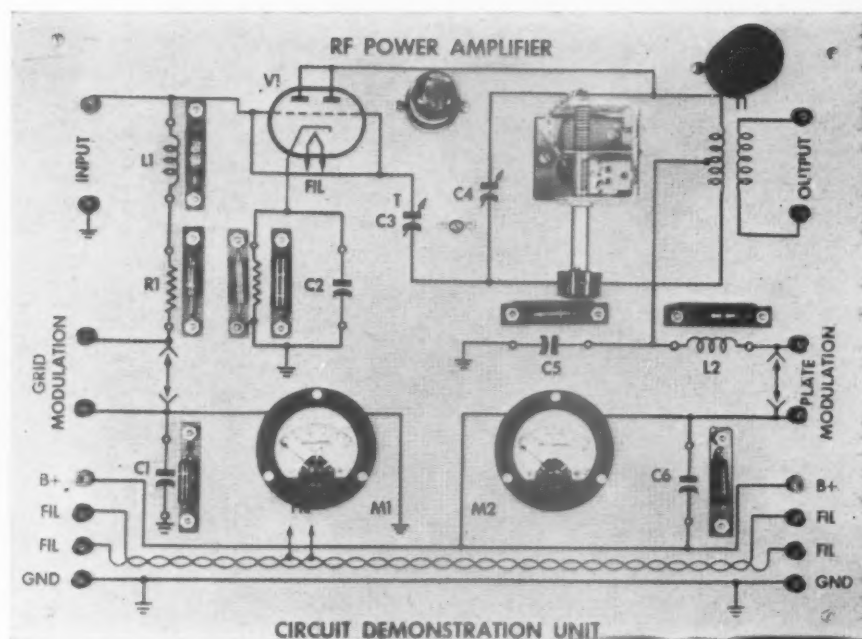


the Philco circuit demonstration panels

The Philco Circuit Demonstration Panels are mounted on aluminum panels and each represents a complete dynamically operating circuit, developed to emphasize an essential part of an electronic system under study or for initial study of a basic electronic circuit. The Circuit

Demonstration Panels take the place of ordinary block diagrams to great advantage, because they are actually operating blocks themselves. Each of the Panels shows the complete circuit schematic diagram of the electronic circuit being studied, with each physical electronic component mounted beside its circuit symbol.

The Circuit Demonstration Panels are designed with the student in mind, for they may be viewed with ease from every part of the average size classroom. They are also designed with the instructor in mind, for every plug-in component is easily replaced. The instructor saves valuable time when demonstrating the effect on circuit operation when



the value of a component is changed, using this easy substitution method. The component plug-in feature also enhances the value of the Panels in the demonstration of troubleshooting, because of the ease with which components may be replaced with defective ones to simulate faults. In utilizing standard test equipment, an ideal situation prevails for showing the student a logical and practical troubleshooting method along with the fundamental uses of the test equipment. The Circuit Demonstration Panels also possess versatility because they may be operated individually, or in conjunction with one another to form a complete system.



the Philco laboratory circuit analysis unit

The student's Laboratory Circuit Analysis Unit is the answer to the electronics instructor's requirements for student laboratory work. The individual Chassis, comprising the Laboratory Circuit Analysis Unit being the counterpart of the Circuit Demonstration Panels, are individually complete, representing every important circuit of basic and advanced electronics. They are compact, space-saving units, sturdily built on steel chassis. They are accessible, with the components so mounted that replacement does not require soldering.

radar and microwave systems test equipment trainer

The Radar and Microwave Systems Test Equipment Trainer includes a Bench Test Assembly, a Power Bridge, and an Accessory Kit. It is designed for use with the Radar and Microwave Systems Lecture Demonstration Unit and the Radar and Microwave Systems Circuit Analysis Unit for demonstrating in the classroom and performing in the laboratory typical radar and microwave tests, measurements and adjustments.

The Bench Test Assembly, which is shown near the center of the Rack in the figure, includes a Slotted Waveguide and Probe for making VSWR measurements; a cavity-type Frequency Meter for making frequency measurements by the absorption method; an Attenuator with Dial for X-band use; and a Barretter Mount for use with the Power Bridge described below. All of these components are mounted on a steel panel. The panel measures approximately 7 in. x 15 in. and is designed for mounting in a standard Philco Laboratory Chassis Rack.

The Power Bridge, shown directly to the left of the Bench Test Assembly, contains a d-c bridge circuit and a rugged, sensitive meter mounted on a stand-

Through their use, the student, in addition to experimentally proving circuit theory, gains practice toward becoming a good technician, because the Chassis are actual working equipment.

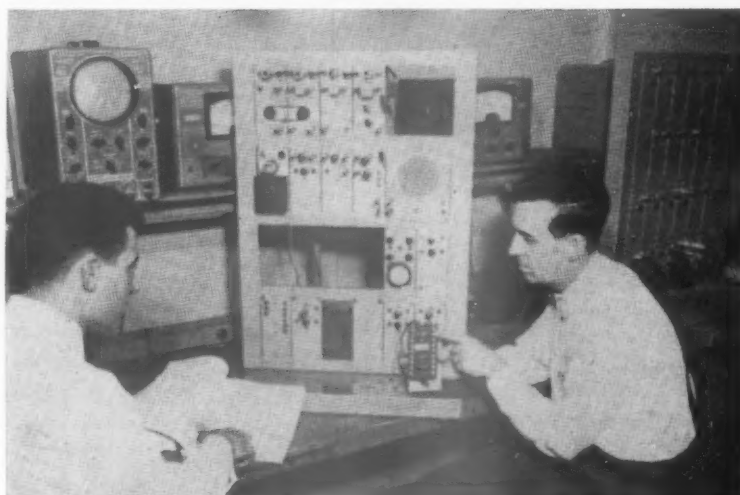
The design of the Chassis permits rapid conversion from one type of circuit to another; and the Chassis may be studied as individual circuits or as a group of circuits interconnected to form a circuit chain or complete electronic system. An important feature of the Laboratory Circuit Analysis Chassis

and Laboratory Chassis panel for mounting in a standard Laboratory Chassis Rack. The Power Bridge is used in conjunction with the Bench Test Assembly for making power measurements in the microwave region (X-band) and as a general-purpose bridge.

The Philco Radar and Microwave Systems Test Equipment Trainer, simulates the r-f test equipment that is used with radar and microwave communications equipment. It is designed for use both in the classroom and in the laboratory so that the instructor may teach and demonstrate proper test and adjustment procedures on radar and microwave systems and the student may duplicate these procedures in the laboratory. The functions performed by the Test Equipment Trainer are fully representative of the operation and functions of precision laboratory equipment. The Test Equipment Trainer provides a radar and microwave test facility for training purposes without the need for costly precision equipment. The X-Band Dielectric Antenna and the X-Band Lens are highly suitable, for training purposes, in conducting practical experiments in propagation and propagation measurements.



is the convenience with which proper troubleshooting procedures may be taught, since components may be easily replaced with defective ones to simulate circuit faults. The Chassis are mounted on a steel Laboratory Circuit Analysis Chassis Rack in a uniform pattern which makes for convenient interconnection of Chassis to form circuit chains. All types of electronic systems may be represented by the Chassis, affording the student a wide variety of actual working experience.

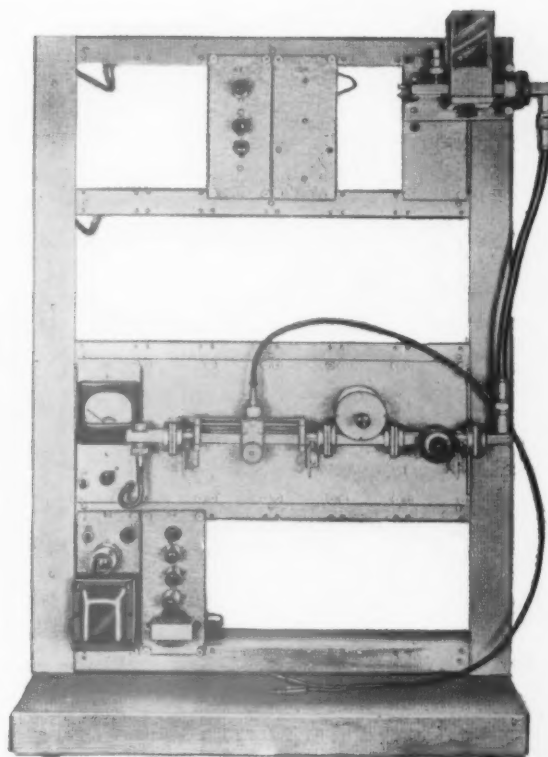


The Bench Test Assembly when mounted in a standard Laboratory Rack, places the components at a convenient height, well-secured for student use. The components are rugged and are compatible with the transducers and other elements of the Radar and Microwave Systems Lecture Demonstration Unit and the Radar and Microwave System Laboratory Circuit Analysis Unit.

The Power Bridge is well built and conservatively designed to provide stable measurements.

The Accessory Kit contains the auxiliary items to make the Test Equipment Trainer complete; these items are designed to withstand the constant use required of training equipment.

Many military and civilian training programs have incorporated the use of the Radar and Microwave Systems Test Equipment Trainer to broaden the scope of their use of the Philco Standardized Training Materials in the simulation of radar and microwave systems for laboratory and classroom instruction. Various branches of the Armed Forces, industrial concerns, telephone companies, Government agencies, and colleges and technical schools are numbered among the users of this equipment.



the Philco standardized training course material

One of the basic points of superiority of the PHILCO PROGRAM is the PHILCO STANDARDIZED TRAINING COURSE MATERIAL. This is a vitally important item, because even the best instructor is severely handicapped when not equipped with adequate technical literature. The COURSE MATERIAL consists of instructors' lecture and laboratory manuals and students' laboratory manuals, in four volumes. These manuals are the binding element for the whole PHILCO PROGRAM. Through their use standardization is achieved—men will be trained not only in the same subjects, but in the same manner, and with equal effectiveness. All instructors' manuals, both lecture and laboratory, include a carefully organized COURSE OUTLINE and SCHEDULE. The lecture manuals have detailed LESSON PLANS which reduce to a minimum the amount of time required for organization and preparation on the part of the instructor. The companion laboratory manual contains the LABORATORY PLANS and EXPERIMENTS, for use in conducting the lab work. Each manual includes specific references so that the instructor need waste no time looking through many books for a particular bit of information.

To further assist the instructor, sample examinations, complete with answers, are furnished; the Course Outline and Schedule lists the LESSON PLANS and EXAMINATION, LABORATORY PLANS and EXPERIMENTS in the proper correlation. It also provides a suggested day-by-day time schedule, so as to obtain a well balanced division of time between the lecture and the laboratory work.

The students' laboratory manuals, or workbooks, provide a complete series of experiments. These manuals enable the students to perform the procedures that prove and apply the theory they have learned in the lectures. In each EXPERIMENT there are questions which, when answered by the students, summarize the concepts studied in the EXPERIMENTS. The workbooks are complete with block diagrams, schematics, photographs, and lists of applicable references.

The entire series of manuals is the result of the combined efforts of personnel possessing wide experience with training problems. Therefore, the comprehensive material which it contains can be used with confidence in the administration of the most efficient type of electronics training course.



PHILCO CORPORATION
TechRep Division

22nd St. and Lehigh Ave.
Philadelphia 32, Penna.

BARNSTEAD STILL & STERILIZER CO.

65 Lanesville Terrace, Forest Hills, Boston 31, Mass.

BARNSTEAD LABORATORY EQUIPMENT FOR THE EXPANDING SCHOOL AND COLLEGE LABORATORY

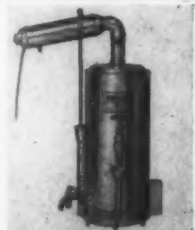


VENTGARD BOTTLE PUMP

Removes precise amounts of distilled water from tanks and containers while protecting unused contents from air-borne contamination. Filters particulate matter as small as 0.2 micron from air before it enters container.

WATER STILLS

In all models and sizes from 1/2 to 1000 gallons per hour. Produce a constant, automatic supply of the purest distilled water in whatever quantity your lab requires. Economical to operate by gas, steam or electricity. Standard equipment in leading universities.

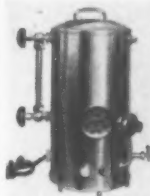


WATER DEMINERALIZERS DISPOSABLE CARTRIDGE-TYPE

Pure, demineralized water always on tap! Model BD-1 (left) produces in continuous flow from 5 to 8 g.p.h. Model BD-2 (right) operates under pressure . . . produces from 5 to 25 g.p.h. No heat or cooling water needed. Connect to any tap.



DISTILLED WATER HEATER



Keeps distilled water ready for instant use any pre-determined temperature. Saves time and eliminates bother of heating water in beakers. Occupies minimum of counter space.

TWO-BED DEMINERALIZER REGENERATIVE-TYPE

Stainless steel cabinet. Clearly marked dials control all operations. No special training needed. Shipped completely assembled ready for use. 30 gallons per hour.



TIN LINED PIPING

For distilled water distribution systems. Complete line of tin-lined pipe, fittings and valves . . . prevents contamination and keeps water pure to point of use. Easily installed . . . no special tools needed.

PARAFFIN DISPENSER

Small, portable. Melts embedding paraffin and keeps it on tap for instant use. Paraffin flows freely as needed. Temperature automatically controlled. Electrically heated.



WATER BATH



Strong, durable construction . . . portable. Bottle feed or hose connection. Inside shelf for flasks. Six outside openings. 14-tube holder. Polished monel exterior. Built-in switches & pilot light. Thermostatic control (optional.)

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| <input type="checkbox"/> Cat. "G" - Water Stills | <input type="checkbox"/> Bulletin #140
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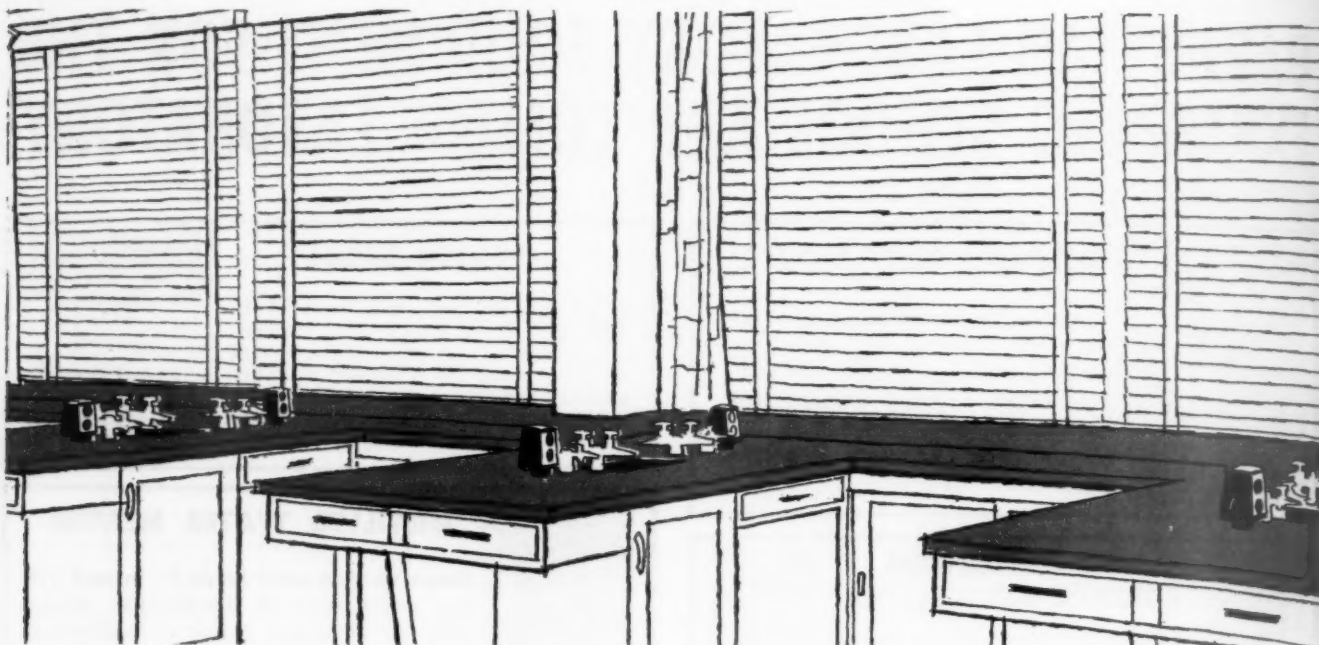
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J-M COLORLITH

THE COLORED ASBESTOS-CEMENT TABLE TOP
THAT CAN TAKE THE DAILY PUNISHMENT OF SCHOOL LABORATORIES

For laboratory table tops, shelves, drainboards and other work spaces, J-M Colorlith® provides beauty, strength and chemical-resistance. Composed of a mixture of Portland cement and carefully selected asbestos fibres integrally mixed with chemically-resistant colorings and fillings, it is subjected to enormous hydraulic pressure to form a dense,

homogeneous sheet with unusual resistance to physical and chemical abuse.

Colorlith is available through leading manufacturers of laboratory equipment. For their names and folder EL-62A describing this durable, economical material, write Johns-Manville.

Attractive appearance You can decorate your school laboratory, brighten it and make it a more attractive place in which to work with Colorlith's choice of three beautiful colors—rich Cameo Brown; light, cool Surf Green; and handsome Charcoal Gray.

Resists active chemicals Colorlith is highly resistant to most chemicals, acids, alkalis and solvents. While Charcoal Gray is designed to be used without heavy protective coatings, a light coating of vinyl or equal will enhance its serviceability. For long-lasting beauty, Cameo Brown and Surf Green should be lightly coated with vinyl or equal.

Stronger than stone . . . resists heat and shock Combining impressive tensile, shear and compressive strengths, Colorlith resists more than ordinary laboratory abuse. Because of its exceptional structural strength, it is available in 4' x 8' sheets in thicknesses from 1 1/4" to 1/4". The thinner thicknesses lend themselves ideally to the construction of matching or contrasting colored fume hoods . . .

are suitable for resurfacing old laboratory table tops. Colorlith is readily machined with metal-working tools.

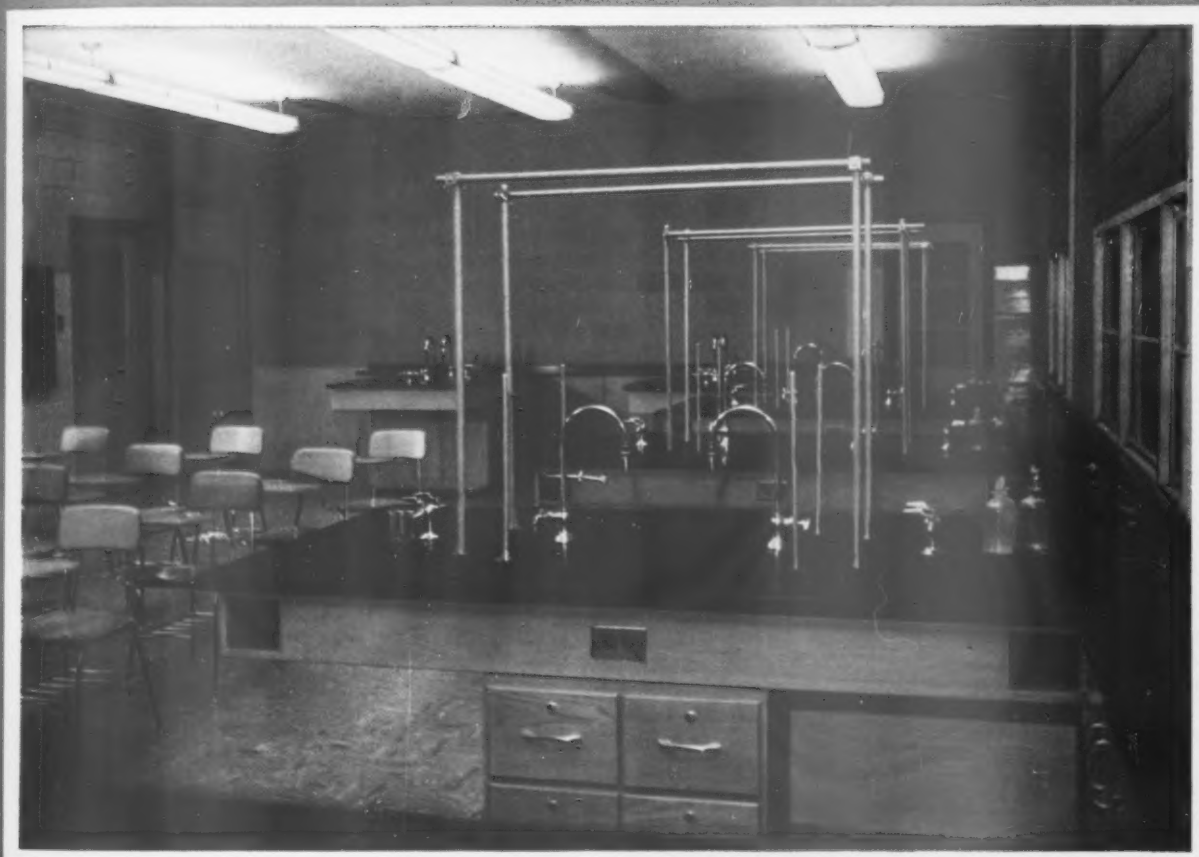
Keeps its factory finish Colorlith's surface can be polished to a high degree of smoothness and still retain a soft textured appearance which prevents glare and excessive light reflection.

TYPICAL PHYSICAL PROPERTIES*

Density (Dry), lb/cu ft min	100
Moisture Content (Normal), % dry wt, max	5
Water Absorption, % of dry wt max (After 48 hrs immersion at room temperature, vinyl coating all sides)	Less than 2%
Modulus of Rupture, psi 1/4" thickness	5000
3/4" thickness	4500
1 1/4" thickness	4000
Compressive Strength (Normal), psi	15000
Brinell Hardness No. (Dry) 500 kg load, 10 mm ball, 10 sec	25

*The figures given are average values (unless otherwise specified) obtained in accordance with accepted test methods. "Dry" refers to oven-dried samples; "Normal" to normal conditions of 75F and 50% R.H.

WOOD EDUCATIONAL LABORATORY FURNITURE



Kewaunee

TECHNICAL

KEWAUNEE MFG. CO.
ADRIAN, MICHIGAN

TECHNICAL FURNITURE INC.
STATESVILLE, N. CAROLINA

**SECTION 5
1958 EDITION**

AIA FILE NO. 35E

NEW

SECTION 5 — WOOD EDUCATIONAL LABORATORY FURNITURE CATALOG

Page 1 of this 4-page folder is the front cover of our new 68 page Section 5—Wood Educational Laboratory Furniture Catalog. Write for your free copy today!

Pictured at the right are three of the **KEMLINE PERIMETER TABLES** available for Chemistry, Physics, Biology, General Science or any desired combination of these science courses. A choice of eight different base units, six of which may be used at either the wall or student table, and seven different work top arrangements makes it possible to provide several hundred different types of these 4-student tables. An additional feature of these tables is the planned storage facilities. Consult the complete catalog for details.

In addition to the 20 pages devoted to Perimeter 4-Student Tables, the complete catalog illustrates and describes several other kinds of Combination Science, Chemistry, Physics, Biology and General Science student tables. The catalog also covers Instructor's Desks, Fume Hoods, Aquariums, Terrariums, Germinating Beds, Darkroom Tables, Storage Assemblies and Cases, Sinks, Chalkboards and numerous other items of equipment. Everything that is required to equip a new or remodeled science laboratory is offered under the one cover. Again we urge you to write for your free copy of this catalog today!

KEMLINE PERIMETER TABLES



No. 5WA26

CHEMISTRY—PHYSICS



No. 5WG13

BIOLOGY AND GENERAL SCIENCE



No. 5WB67

CHEMISTRY



EXCELLENT ENGINEERING



OUTSTANDING CONSTRUCTION



SECTION 5A—EDUCATIONAL PLANNING MANUAL is a companion piece to the Section 5 Catalog described on the opposite page. It features typical plan layouts for all types of science laboratories, along with visual perspective views and equipment lists. In addition, mechanical service roughing-in data and elevation drawings for all of the items in the Section 5 Catalog are provided. When you write for your new Section 5 Catalog, be sure and request the Section 5A—Educational Planning Manual, too.

SECTION 2—ARTS AND CRAFTS CATALOG offers the latest in furniture and equipment to provide highly diversified fields of activity in the Arts and Crafts Department. The many mediums and materials used in the schools of today require that proper equipment for work assignments, display cases and exhibit areas, plus adequate storage for tools and supplies be provided in the classrooms. All of the equipment mentioned above, plus floor plans, visual perspective views and equipment lists are included in this catalog. If you are planning a new or remodeled Arts and Crafts Department, this catalog will be very helpful to you. Write for your free copy.

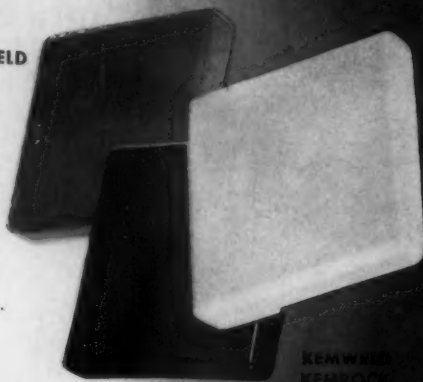
SECTION 3—HOMEMAKING CATALOG illustrates and describes the furniture and equipment necessary for all work centers in the Homemaking Department. In addition to the items of furniture and equipment, this catalog has 19 pages of floor plans with equipment lists covering the five (5) work centers that are required for a complete Homemaking Department. These work centers are: (1) Food Study—preparation and serving; (2) Social Living; (3) Clothing—textile study, fitting and grooming; (4) Workshop—laundry and storage; and (5) Child Care and Home Nursing. This catalog is also available to you free upon request.

PLANNING SERVICE

A complete planning service for Science Laboratories, Arts and Crafts Departments and Homemaking Laboratories, including equipment layouts and mechanical service roughing-in drawings, together with catalogs and budget prices is available from either factory without cost or obligation.

TOP MATERIALS

GREENWELD



KEMWELD
KEMROCK

The following top materials are available for laboratory work surfaces, counter and table tops: Kemrock, Kemweld, Greenweld, Grayweld, Kemstone (charcoal gray, cameo brown and surf green), Terrasite, Linoleum, Plastic, Stainless Steel, Maple (edge grain, natural finish and oil finish), Soapstone (regular and grade 25), Birch (Kemblack and clear lacquer) and Carrara Marble.

PUBLICATIONS

Educational:

Section 2—Arts and Crafts Equipment

Section 3—Homemaking Equipment

Section 5—Wood Educational Laboratory Furniture

Section 5A—Educational Planning Manual

KemTech System

Others:

Section 1—Service Fixtures and Sinks

Section 2—Laboratory Fume Hoods

Section 2C—CBR System

No. 56—Metal Laboratory Equipment

No. 57—Wood Laboratory Equipment

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TECHNICAL FURNITURE
STATESVILLE, N.C.

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SUPERIOR CRAFTSMANSHIP



EQUIPMENT FOR EDUCATIONAL LABORATORIES

METALAB

METAL

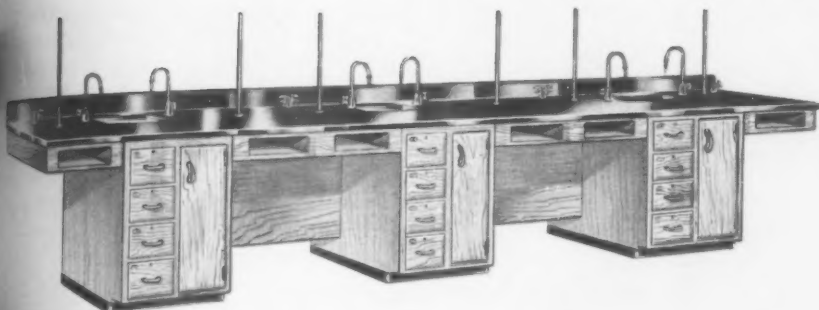
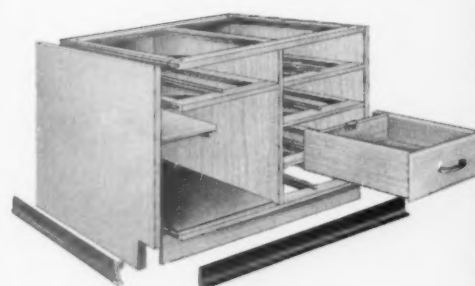
LABCRAFT

WOOD

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- HOME ARTS
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ECONOMY

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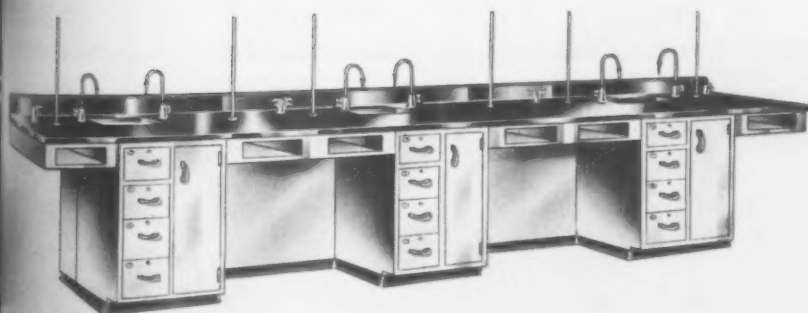
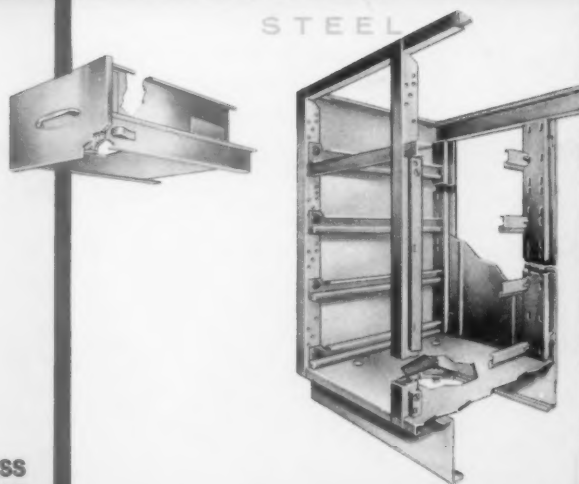
W5210 6 STUDENT—2 CLASS
COMBINATION SCIENCE TABLE

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SCHOOL DESIGNERS SET THE PATTERN *For The Modern School Building*SCIENCE AND INDUSTRY SETS THE PACE *For The New School***PROGRESS MEANS GROWTH**

Now you can have a complete educational laboratory installation in either WOOD or METAL or a combination of both by the fastest growing firm in the laboratory furniture industry.

It will pay you to review the following pages before making your selections of new equipment.

5210 6 STUDENT — 2 CLASS
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STANDARD METALAB CONSTRUCTION

METALAB *Equipment Company*

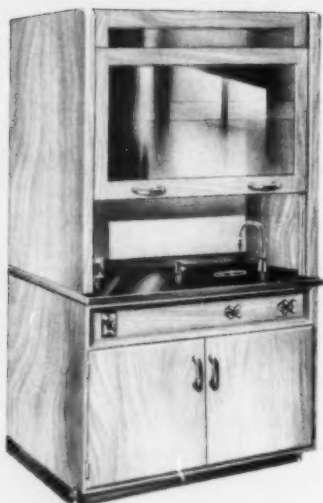
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LABCRAFT WOOD

- NATURAL BEAUTY
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- EASE OF MAINTENANCE
- NATURAL CHEMICAL RESISTANCE
- ADAPTABILITY



WAW47R FUME HOOD
47" Long, 24" Deep, 7'0" High



**W5000 2 STUDENT—2 CLASS
COMBINATION SCIENCE TABLE**
66" Long, 30" Wide, 37" High



W5710 INSTRUCTOR'S DESK
8' Long, 30" Wide, 37" High

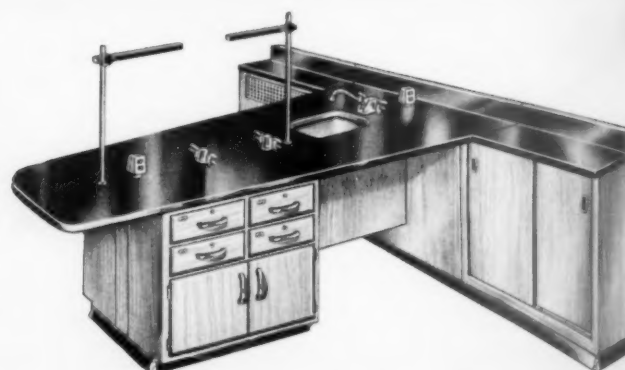
Wood equipment and furniture by Labcraft is a result of careful study and scientific research in keeping with the modern trend of Educational Science Teaching. It incorporates the latest design features paramount to educators whose tasks it becomes to inspire scientific thought in the minds of our nation's youths. Students trained with the help of Labcraft equipment are better prepared to take their place in the fast moving scientific age.

Illustrated here are only a few items selected from the complete Labcraft catalog containing a full line of equipment now in use throughout the nation in secondary schools, colleges and universities.

W5540 2 STUDENT—4 CLASS TABLE
72" Long, 24" Wide, 31" High



**W5940 6 STUDENT—2 CLASS
UNIVERSITY SCIENCE TABLE**
12' Long, (without sink), 4'6" Wide, 37" High



W7005 VARI-PHASE TABLE 4 STUDENT—2 CLASS
7'0" Long, 4'0" Wide at wall, 3'0" Wide at front, 37" High

- CORROSION-RESISTANT
- RUGGED-DURABLE
- FIRE-RESISTANT
- WATER-PROOF
- ADAPTABILITY

METALAB STEEL

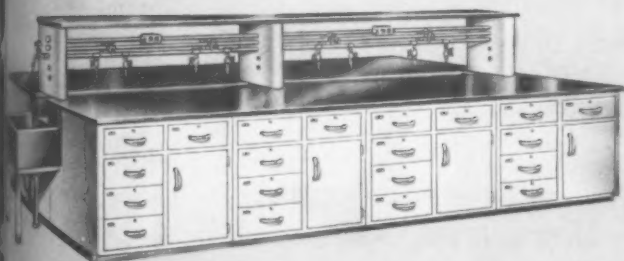
Steel educational equipment is a product of years of Metalab research and experience in the manufacture of laboratory furniture. Students being trained for positions in the world of science and industry should have the experience of working with this accepted type of equipment. The transition from the school science department to the professional laboratory can be accomplished with ease by the students using Metalab equipment.

Illustrated on this page are a few selected items from the complete Metalab steel catalog. You will find this equipment in secondary schools and universities throughout the country.

METALAB *Equipment Company*
DIVISION OF NORBUTE CORPORATION
HICKSVILLE, LONG ISLAND, NEW YORK



MF70 METAL-AIRE FLOLINE FUME HOOD
70" Long, 33½" Wide, 8'0" High



CAT. #5920 CENTER TABLE
11'11" Long, (without sink), 4'6" Wide, 3'1" High



**5130 4 STUDENT—4 CLASS
COMBINATION SCIENCE TABLE**
72" Long, 30" Wide, 37" High



**8000 SERIES
LABMAKER SERVICE CENTER**
Available in all sizes



CAT. #5750 INSTRUCTOR'S DESK
8'0" Long, 30" Wide, 37" High

Engineering Services

Metalab and Labcraft's highly skilled and experienced Design-Engineering staff's services are yours without obligation. The most difficult laboratory planning problems are handled routinely by this department, which means that we can readily offer the solution to your individual request. Our staff prides themselves on being able to translate a rough idea, or concept of needs, into a completely finished and highly functional installation.



Specify WOOD OR STEEL

Metalab and Labcraft now offer complete lines of Educational Laboratory Equipment in both WOOD and STEEL, portions of which are illustrated and described on the foregoing pages.

The combination of superior engineering design, expert craftsmanship, the finest of selected laboratory tested materials, and the latest methods in metal and wood-working production are evidenced in the finished product. All details of construction have been carefully analyzed to reflect maximum utility, superior design and appearance, and long service-life at low maintenance costs.

The use of Metalab and Labcraft construction specifications in the preparation and advertising for bids will assure you of the finest available Laboratory Furniture and Equipment for your new science laboratories.

Throughout the country, in important institutions, plants and schools, you will find Metalab and Labcraft installations. The prestige we gain through serving you well is the foundation upon which we build our future.

The answer is Metalab and Labcraft.

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For Metalab's completely illustrated catalogs on Educational Equipment and Furniture in WOOD or STEEL—write in today for detailed information and costs of the equipment that you may require.



STEEL



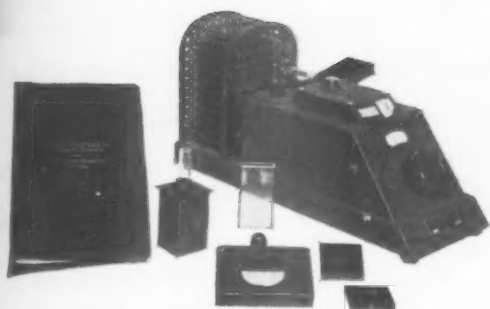
WOOD

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KLETT MANUFACTURING CO.

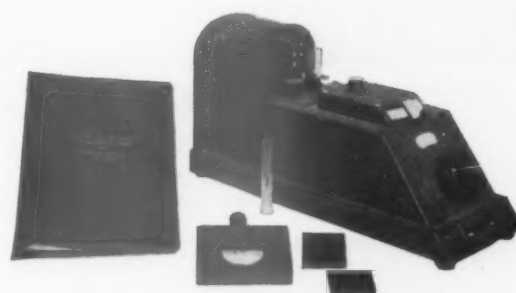
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Klett - Summerson



INDUSTRIAL COLORIMETER

PHOTOELECTRIC COLORIMETERS



CLINICAL COLORIMETER

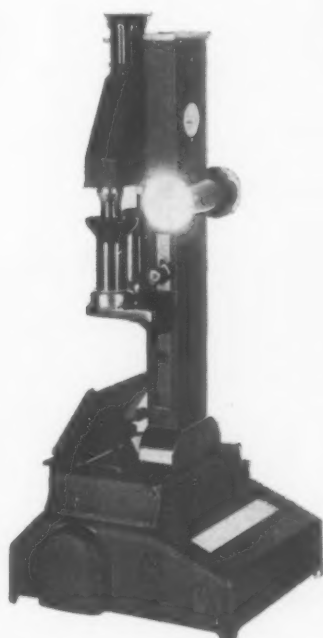
The Klett-Summerson photoelectric colorimeters are easily operated filter photometers. The scale readings of the potentiometer are proportional to the concentration of the colored substance in the cuvette when Beer's Law holds. The balanced two-photocell construction permits operation on unstabilized A.C.-D.C. circuits.

The Industrial model can use either the cylindrical cuvette or a 2 to 4 cm deep rectangular cuvette for measurement of solutions with very pale colors.

The Clinical model requires a sample of 1 to 5 ml for its cylindrical cuvette

THE KLETT BIO-COLORIMETERS

A cup and plunger colorimeter for direct visual comparison of unknown with a standard solution. The glass scale and vernier are read from the top. No filters are used.



The Klett Fluorimeter



Designed specifically for measuring very small amounts of fluorescing substances such as: vitamins, blood pigments, chlorophylls, carcinogenic hydrocarbons, many other substances.

DURALAB EQUIPMENT CORP.

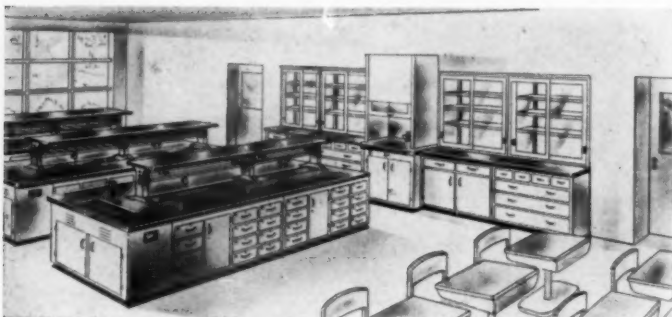
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Designers and Manufacturers of Laboratory Furniture and Equipment

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STUDENTS WORK UNDER PROFESSIONAL CONDITIONS WITH DURALAB EQUIPMENT

Designed to withstand the continuous wear of school classes. Duralab Units are waterproof, fireproof, corrosion resistant, and are constructed of the finest materials; laboratory tested, and engineered to meet the latest scientific developments.

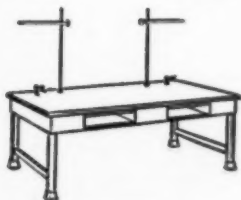


School Laboratories designed and equipped by Duralab to fit school budgets, yet containing all units necessary for full and professional operations.

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- Rutgers University, New Brunswick, N. J.
- University of Maryland, College Park, Md.
- The Johns Hopkins School of Medicine, Baltimore, Md.
- Aroostock State Teachers College, Presque Isle, Me.
- Henry C. Conrad High School, Wilmington, Del.

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Physics, Science, Biology, Bacteriology, Pathology, Histology, Pharmacology, Embryology, Physiology, Bio-Chemistry, Post-Mortem, etc.



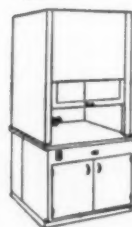
CASES

Notebook & Display, Key, Microscope, Skeleton, Glassware, etc.



CABINETS

Chemical, Storage, Chemical Storage, Utility, Supply, etc.



FUME HOODS

Single & multiple compartment hoods, with & without sliding sashes.

Radiochemical Laboratory Equipment

Beta & Gamma Fume Hoods, Gloved Boxes, Wall Tables, Center Tables, etc.

DURALAB *Engineering* FEATURES

- Compact
- Maximum Storage Space
- Roomy and Noiseless Drawers and Cupboards
- Highly Functional

Write to Dept. SU for our complete catalog or consult us today. Our planning services are at your disposal. No obligation!



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MAURICE A. KNIGHT CO.

227 Kelly Ave., Akron 9, Ohio • Phone: Parkway 4-1277

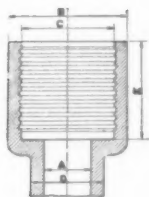
Manufacturers of Acid-Proof Laboratory Equipment



271—Single
hub pipe



269A—P Trap with flange
clean out



Detail of Knight-Ware
Hub

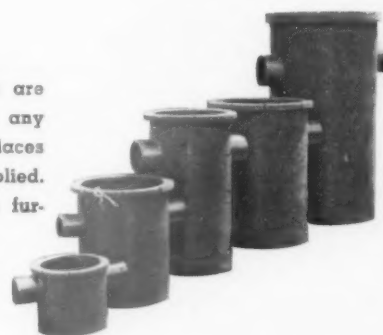
KNIGHT-WARE Laboratory Equipment is not just surface resistant but genuinely acid-proof throughout its entire body. It includes drain lines and fittings, table troughs, receptors, neutralizing sumps and fume ducts. All are available in special or standard design.

KNIGHT-WARE

Acid Waste-Pipe and Fittings

KNIGHT-WARE bell and spigot pipe and fittings are available in any bore from 1½" up to 60" in any lengths up to 6 ft. Special fittings for unusual places or to eliminate unnecessary joints can be supplied. Flanged or plain ground end connections can be furnished where desired.

Our Bulletin No. 271 gives complete instructions for the proper installation of Knight Pipe & Fittings, including the method of making joints.



271 — Bell and Spigot Pipe

A	D	C	B	E	L	lbs./ft.
1½"	2¼"	3"	3¾"	3"	1' to 5'	3¼
2"	2¾"	3½"	4¼"	4"	1' to 5'	4
3"	4"	4¾"	5¾"	4"	1' to 5'	5½
4"	5"	6"	7"	4"	1' to 5'	8½
5"	6"	7"	8"	4"	1' to 5'	11
6"	7¼"	8¼"	9½"	4"	1' to 6'	15
8"	9½"	10¾"	12½"	4"	1' to 6'	20
9"	10½"	12"	14¼"	4"	1' to 6'	24
10"	11¾"	13¼"	15"	4"	1' to 6'	28
12"	13¾"	15¼"	17"	4"	1' to 6'	36

KNIGHT-WARE SUMPS

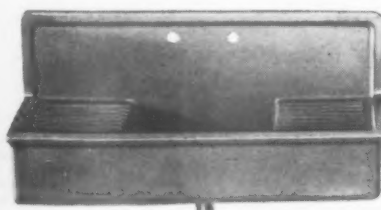
	401-B			400-A	
Inside diameter . . .	12	18"	24"	30"	36"
Inside depth	12	24"	36"	57"	75"
Connections	2	3-4"	3-4"	4-6"	4-6"
Net weight lbs. . . .	75	175	400	700	1100

We supply two types of KNIGHT-WARE Sumps or Dilution Basins. The smaller Type "B" has only one inlet but the larger type "A" can be provided with more than one where necessary and located at any desired position. Covers on the "B" type are flat and are provided with bolts and gaskets while the covers for the "A" types are usually set in a socket on a ring gasket. We can also provide flanged covers on the "A" type at slightly increased cost.

KNIGHT-WARE SINKS

KNIGHT-WARE Laboratory Sinks are custom built to suit your requirements. Because they are entirely handmade, it costs no more for this service. The one-piece construction, smooth surfaces, rounded corners and acid-proof quality mean a freedom from leaks and a cleanliness that is permanent. Outlets of various designs, back, drainboards and apron are optional as an integral part of sink. Special designs and sizes other than those listed in our catalog are available. In this case please submit sketches and complete dimensions when requesting quotations.

Complete catalog 12A will be sent on request.



No. 237-LDD

KNIGHT-WARE sinks are available with right, lefthand or double drainboards.

**CORROSION-
PROOF**



**LABORATORY
EQUIPMENT**

THE UNITED STATES STONEWARE CO.

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GLASS-CLEAR TYGON

Flexible-Plastic
Tubing

Write for Bulletin T-97

Tygon is non-toxic, non-contaminating. Tygon is inert chemically. Tygon is glass-smooth, inside and out. Tygon is elastic, resilient, and truly flexible. Tygon is tough, durable, and non-oxidizing. Tygon is sterilizable.

Tygon is made in over 50 sizes to fit every requirement. And Tygon is branded every foot with the Tygon name.

For the finest in LABORATORY SINKS



Write for
Bulletin L-8

No better sink is made than the "U. S." gray-glazed chemical porcelain sink. Dense, impermeable, it never requires scouring or honing. Solid, one-piece chemical porcelain, without joints or seams. Rounded corners and smooth surfaces make cleaning as easy as washing a china dish. "U. S." gray-glazed porcelain sinks are made in a virtually unlimited size range, and in many styles.

LABORATORY JAR MILLS

U. S. Stoneware offers a range of types and sizes of jar grinding mills to fit every laboratory need. The "General Utility" type features the patented "no creep" neoprene rollers which keep jars centered, and is made in a range of sizes to handle one to 24 jars from 1/2 pt. to 4 gal. capacity. Other types of mills include "long roll" mills with two or three rolls, with or without cabinets.

Write for Bulletin 280

"ROALOX" GRINDING MILL JARS

Special Burundum-fortified porcelain body gives these jars a "wear-life" two to three times that of conventional jars. "All-in-one" lid, lid-lock and gasket. Neoprene gasket comes off with the lid. Wide mouth facilitates loading and unloading. Made in eight sizes—from 1/2 to 6 1/2 gallon capacity.

Write for Bulletin 280

41F

AMERICAN SCHOOL AND UNIVERSITY—1958-59



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RUGGED SCIENCE LABORATORY FURNITURE

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Specially Designed for High Schools
and Colleges in Wood or Steel

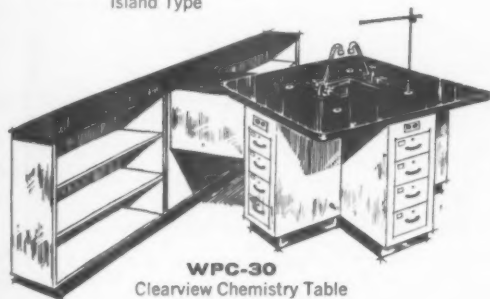


WCC-35
Clearview Chemistry Table
Island Type

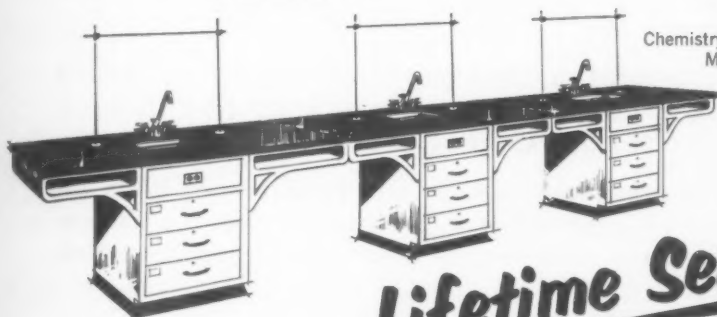


WD-40

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WPC-30
Clearview Chemistry Table
Wall Attached

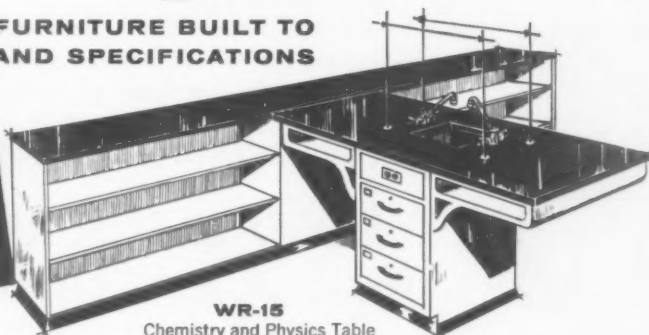


WR-18
Chemistry and Physics Table
Multiple Type

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WR-15
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Wall Attached



F4
Fume Hood

A20
Glassware Storage
Cabinet

A10
Reference and
Chemical Storage
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A30
Tote Tray
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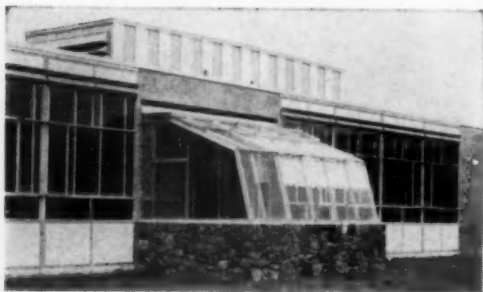


UNIVERSITY OF WISCONSIN—This range consists of 12 separate houses, divided into 40 compartments, attached to a very fine Service Building. The greenhouses have a floor area of approximately 20,000 sq. ft. and contain facilities for some 7 departments. Weiler and Strang, Architects & Engineers designed the Service Building. Walter Kelsey, Architect, designed the greenhouses. General Contractor was Anthony Grignano. Greenhouses by LORD & BURNHAM.

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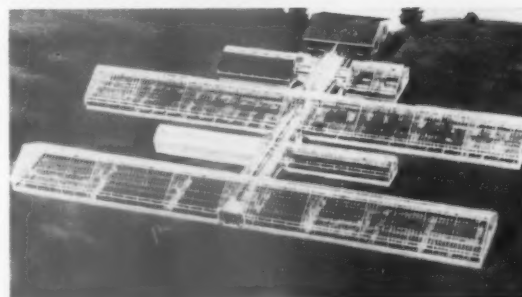
This range consists of 14 separate houses, divided into 57 compartments, together with a Service Building and working passage. The greenhouses have a floor area of approximately 62,000 sq. ft. The range contains facilities for some 14 departments. The greenhouses were designed by Walter Kelsey, and built by LORD & BURNHAM. Foster, Schermerhorn & Foster, General Contractors.



MICHIGAN STATE UNIVERSITY

VIRGINIA POLYTECHNIC INSTITUTE, BLACKSBURG, VA.

This range consists of 8 separate houses, divided into 20 compartments, and a Service Building. The greenhouses cover a floor area of approximately 20,000 sq. ft. The range contains facilities for some 7 departments. Walter Kelsey, Architect, LORD & BURNHAM, General Contractors.



VIRGINIA POLYTECHNIC INSTITUTE

PENN STATE UNIVERSITY, UNIVERSITY PARK, PA.

Plant Sciences Research Center

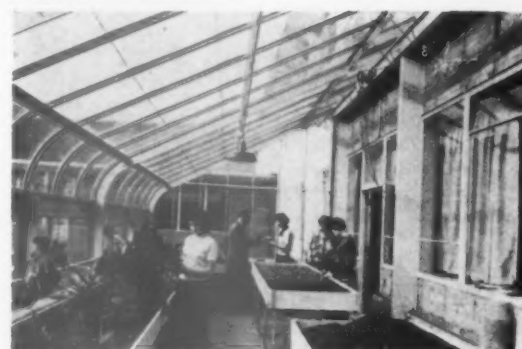
These greenhouses, a portion of the range at Penn State, are generally referred to as the Plant Sciences Research Center and are made up of 7 separate structures divided into a total of 41 compartments. The greenhouses cover an area of approximately 34,000 sq. ft. Five of the houses have Powervent Automatic Ventilation. All houses were designed by Walter Kelsey, Architect, and built by LORD & BURNHAM.



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MR-14C	2000°	14	14	15	1.7	31½	28½	59½
MRH-14C	2300°	14	14	15	1.7	31½	28½	59½
MR-18C	2000°	18	18	19	3.5	38	34	65½
MRH-18C	2300°	18	18	19	3.5	38	34	65½

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NMR-10	10	11	10	30	30	66	10 KVA
NMR-12	12	17	14	35	40	66	15 KVA
NMR-15	17	21	24	40	42	66	15 KVA
NMR-20	20	36	20	45	47	66	20 KVA**
NMR-36	36	40	36	62	64	72	45 KVA**

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MR-10A	2000°	12	12	10	0.8	20	22½	20
MR-15A	2000°	18	18	15	2.8	28	32½	26½
MRH-15A	2300°	16	16	15	2.2	27	30½	29
MRH-18A	2300°	18	18	18	3.4	28½	35¼	34½

SIDE-LOADING . . . Bench Models

MR Series for Cone 04 (2000° F.)

MRH Series for Cone 8 (2300° F.)

MODEL NO.	MAX. TEMP. F.	FIRING CHAMBER				OUTSIDE DIM.		
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MR-9B	2000°	9	9	9	0.4	19	18½	21½
MRH-9B	2300°	9	9	9	0.4	19	18½	21½
MR-11B	2000°	12	14	11	1.1	25	28	32½

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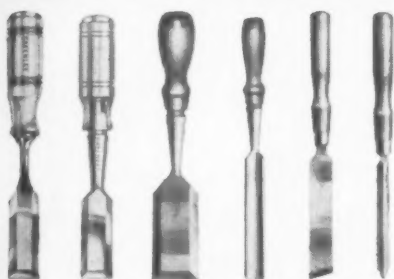
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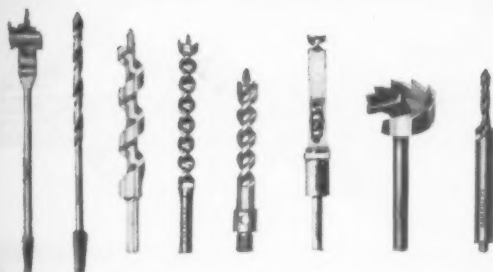
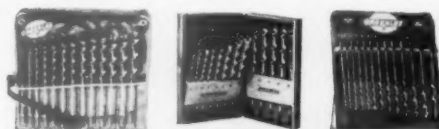
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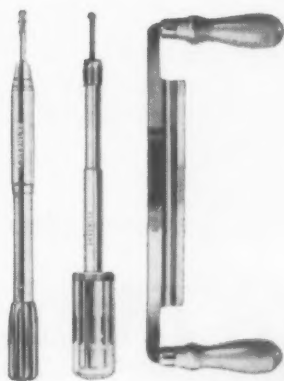
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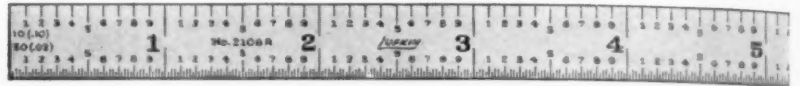


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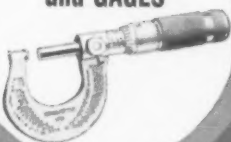


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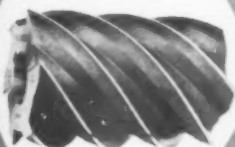
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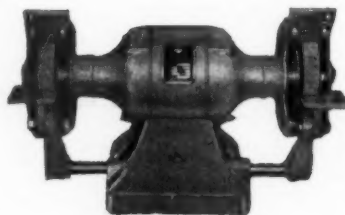
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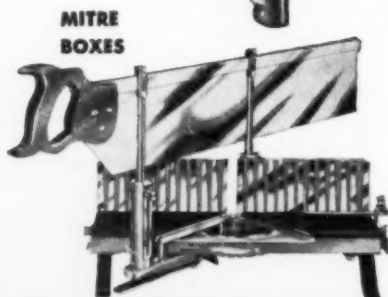
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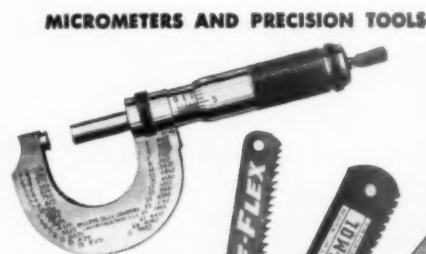
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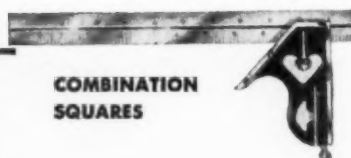
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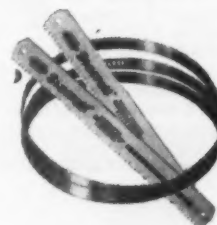
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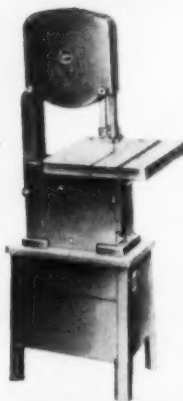
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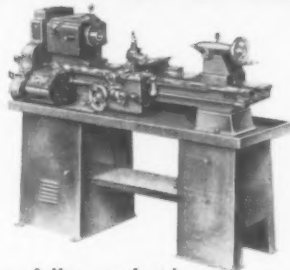
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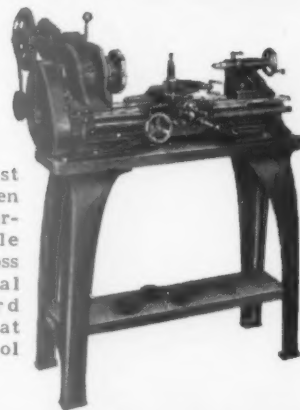
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CLAUSING 6300 LATHES



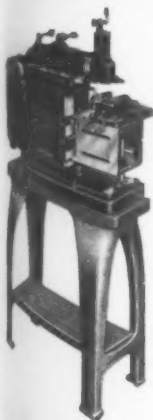
Has fully enclosed headstock, outboard drive, quick-change mechanism and automatic apron. Flame hardened bed ways. 1 3/8" bore—1" collet capacity—"Zero-Precision" Timken tapered roller bearings—No. 3 MT tailstock with tang socket—12 3/4" swing. 24"—36"—48" between centers.

ATLAS 10" LATHES



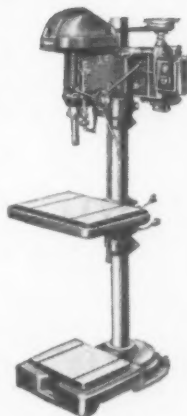
The only low-cost lathes with Timken tapered roller bearings. 16 spindle speeds; power cross and longitudinal feeds standard equipment. Great value for school shops.

ATLAS 7" SHAPERS



The only compact shapers with all the sturdy construction and operating features of large shapers, built down to size. Timken tapered roller bearings. Crank type ram drive. 4 speeds, 5 automatic cross feeds.

CLAUSING 18" DRILL PRESS



New, heavy-duty drill with many exclusive features for broad and thorough instruction. Drills to center of 18 1/4" circle. Capacity, 3/4" in steel, 1" in cast iron — 6 1/2" spindle travel. 5 sealed-for-life ball bearings.

ATLAS DRILL PRESSES



15" floor and bench models include new operating and durability features. 4-ball bearing "floating drive" for long accuracy life. Extra heavy head, table, column, base. New depth control stop. 12 3/4" bench size also available.



SAFETY SAM SAYS:

SEND FOR CATALOGS, WALL CHARTS AND SAFETY POSTERS

DURO METAL PRODUCTS COMPANY

2670 N. Kildare Avenue, Chicago 39, Ill.

Only **DURO**
POWER TOOLS
offer "years ahead" design!

New Heavy Duty Cabinet Models with exclusive "Built-in Safety Features"

You'll be creating confidence and building enthusiasm in your workshop work when your students train on DURO POWER TOOLS. This new line has been developed to meet your specific requirements for quality, utility, safety and price. Duro power tools are years ahead in design, ruggedly built to provide a lifetime of faultless service and they incorporate the priceless safety features you must have (with moving parts protected). Students operating Duro units are learning on equipment industry prefers too—tools that are rapidly becoming the "accepted standard" on wood and metal working jobs.

Send for FREE Power Tool Catalog, Shop Plan Guide and Comparison Chart!

All 3 are FREE! See Duro's superiority where it counts most—in size, capacity, features and price—when compared to other nationally advertised power tools.

DURO TOOLS

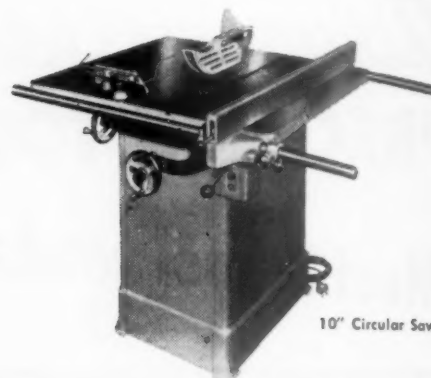


Catalog contains sizes, specifications and details on the complete Duro line including circular, band and scroll saws, lathes, jointers, drill presses, disc and belt sanders, etc. The Planning Guide will give you a clear insight into proper shop planning. Write today.

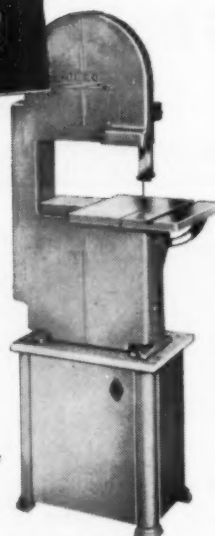
DURO METAL PRODUCTS CO.

2670 N. Kildare Avenue, Chicago 39, Illinois

AMERICAN SCHOOL AND UNIVERSITY—1958-59



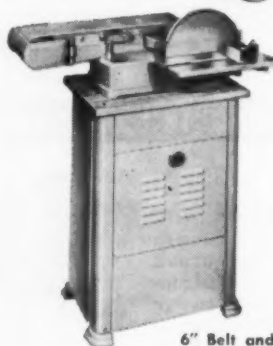
10" Circular Saw



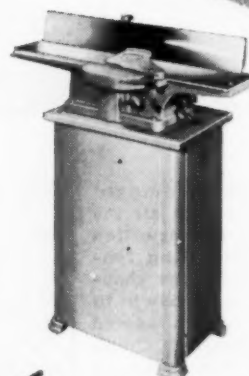
15" Band Saw



26" Scroll Saw



6" Belt and Disc Sander



6" Jointer



14" x 38" Production Lathe



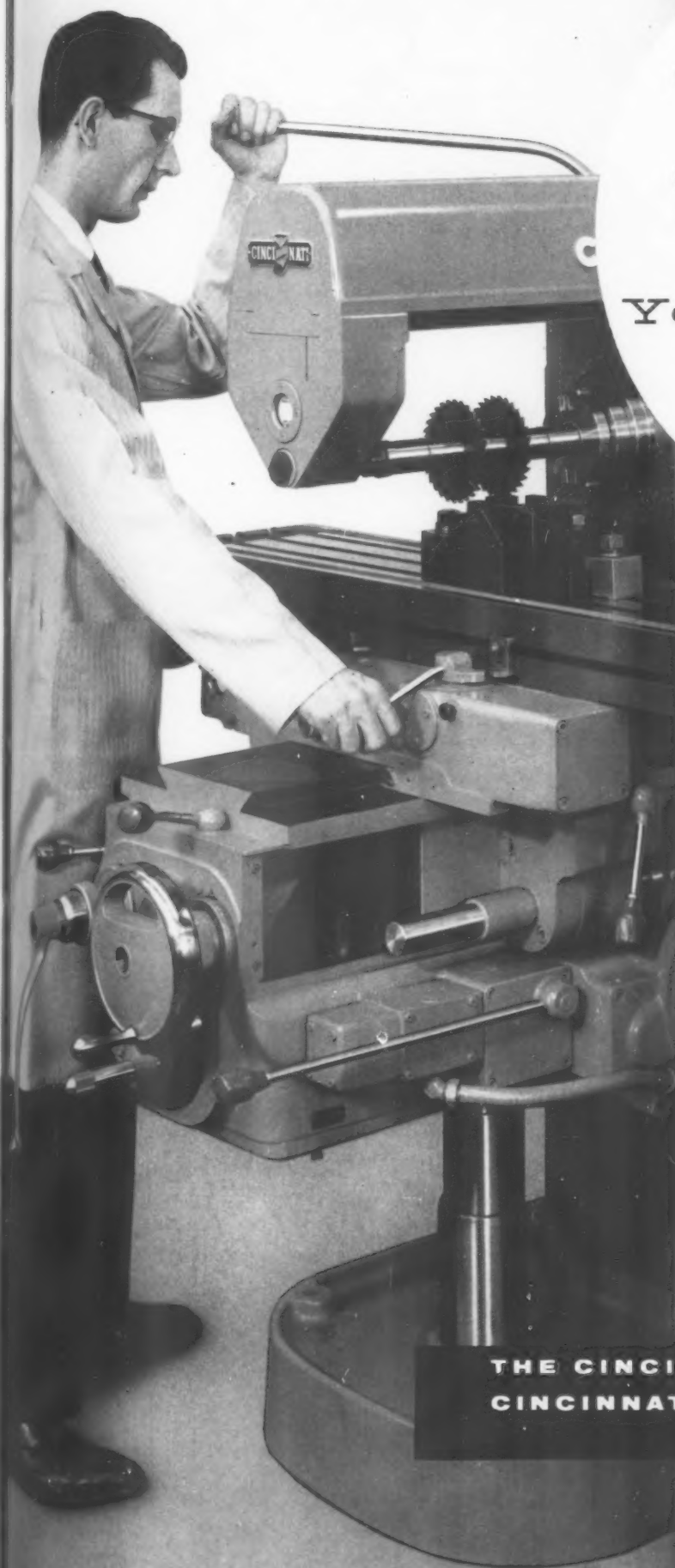
15 1/2" Drill Press

The Best Training

Your Machine Shop
Boys Can Get

is on
**CINCINNATI
MILLING
and
GRINDING
MACHINES**

**THE CINCINNATI MILLING MACHINE CO.
CINCINNATI GRINDERS INCORPORATED
Cincinnati 9, Ohio**



Everyone does better work and produces more when he feels at home on the job. And the way to be sure that your machine shop boys will feel at home on their first job is to train them on machines built primarily for industry. Four Cincinnati machine tools, developed for industry and highly desirable for school shops, are illustrated here. All of them are easy and safe to operate; all are nationally accepted by industry; all are designed with features of versatility which permit the teacher to demonstrate a wide variety of setups. You can obtain complete information by writing for the catalogs in which you are interested.

Toolmaster Milling Machine

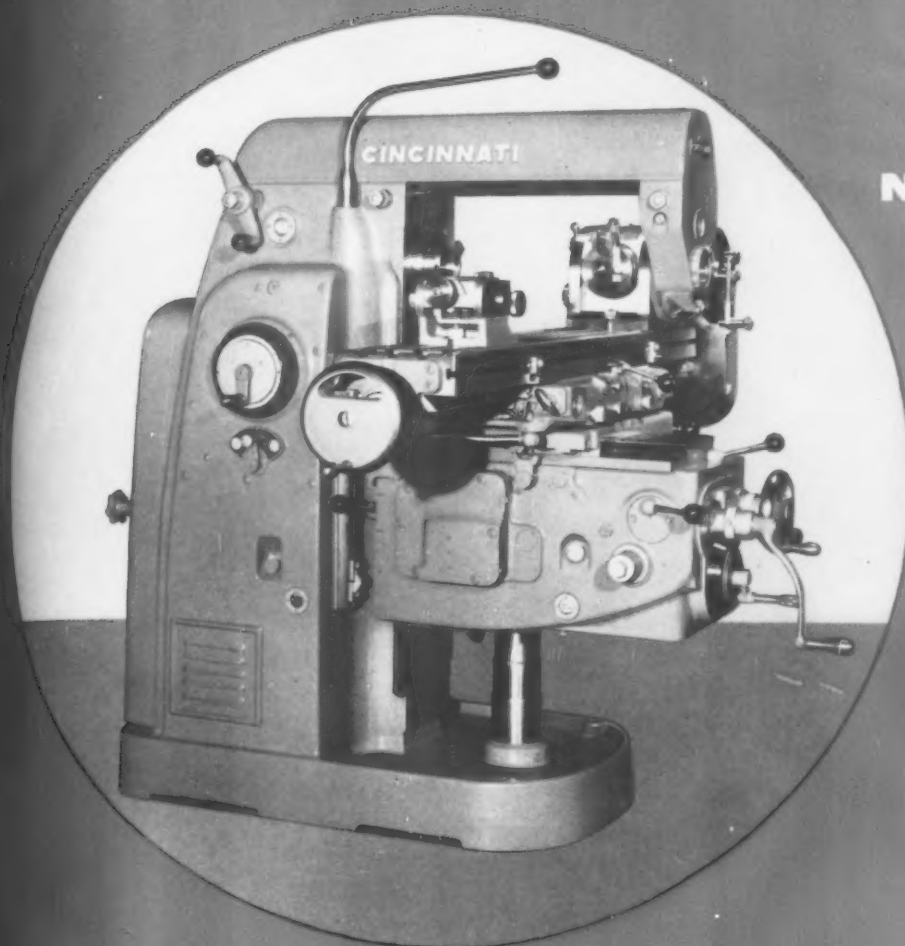
For light milling operations within 1 or 2 hp range. Lowest priced in the Cincinnati line. Variety of attachments available. Catalog No. M-1870-4 for the 1A, 1B and 1C Machine; No. M-2017-1 for the 1D Machine.



10" Hydraulic Universal Grinder

A precision cylindrical grinding machine for both external and internal work, including taper, form and angle grinding setups. Many attachments available. Catalog No. G-577-7.





No. 2 ML Milling Machine

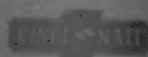
An accurate, versatile and easy-to-operate machine. Universal style illustrated. Plain style also available. Three-way power feed is standard equipment; 28" table traverse; 3 hp spindle drive; Arbor-Loc spindle nose. Many attachments available, including vertical head, rotary milling tables, slotting head, etc. Catalog No. M-1995-1.



No. 1 Cutter and Tool Grinder

For sharpening all the milling cutters, circular saws, reamers and similar cutting tools used in school shops. Also an ideal machine for other grinding operations that can be handled dry. Numerous attachments available. Catalog No. M-1852-2.

THE CINCINNATI MILLING MACHINE CO.
CINCINNATI 9, OHIO



Cincinnati Training Aids for School Shop Programs

Three types of training aids by Cincinnati Milling Machine may be obtained for your machine shop lecture courses. They are available to instructors at no charge, except quantities of educational booklets, which are nominally priced. The more popular training aids are tabulated here. However, others are available, and if you would like to have a complete list, write to Technical and Service Publications Dept. and ask for our leaflet "Educational Aids." Please confine your request to the items of immediate interest.



EDUCATIONAL BOOKLETS

These booklets contain a wealth of basic and practical information for machine shop instructors. No charge for single copies.

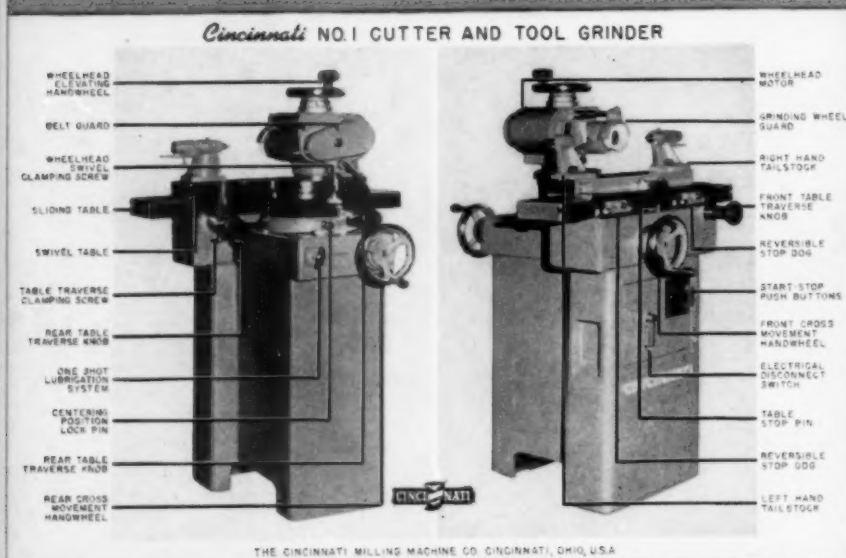
Milling Machine Practice...No. M-773-1

Cutting Gear Teeth on a
Milling MachineNo. M-1769-1

Look Sharp at Your Cutters.No. M-1657-3

Principles of
Centerless GrindingNo. G-503-2

Explaining the Centerless Principle with the
Aid of a Wood Model...No. G-509

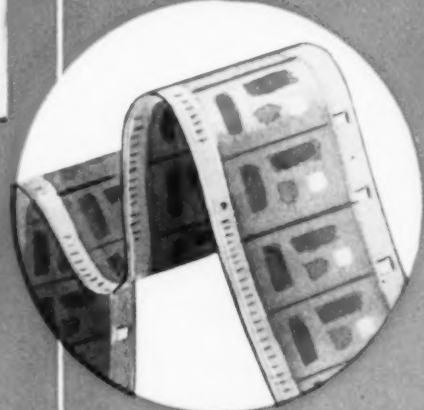


THE CINCINNATI MILLING MACHINE CO. CINCINNATI, OHIO, U.S.A.

INSTRUCTION CHARTS

Suitable for framing, or may be attached to the wall with adhesive tape. 22" x 34" in size. Principal units and operating controls are indicated. The following charts are desirable for lecture courses:

- Toolmaster Milling Machine
- Nos. 2ML and 2MI Milling Machines
- No. 1 Cutter and Tool Grinder



FOUR 16MM COLOR MOVIES

"William Johnson and the Draggin'"
"Highway to Production"
"Age of Precision"
"Cool Chips"

These four movies are not intended as training aids, but they are widely shown and highly informative. They give the students a greater appreciation of the machine tool and metalworking industries. Write for booking dates.

CINCINNATI



THE CINCINNATI MILLING MACHINE CO.
CINCINNATI GRINDERS, INCORPORATED

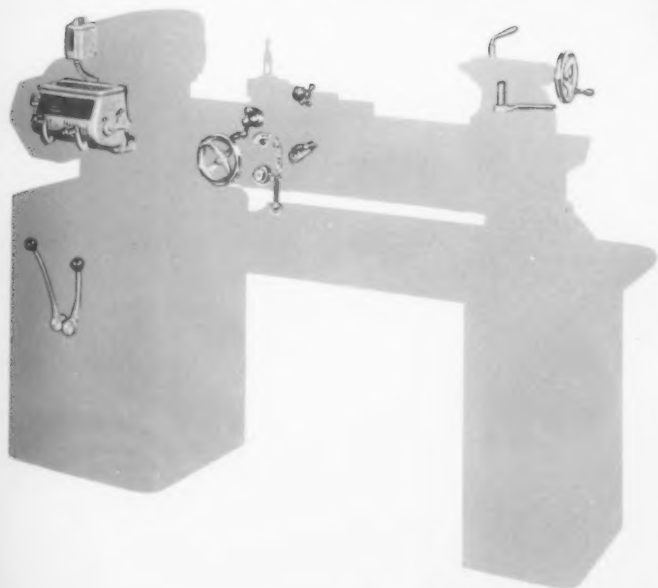
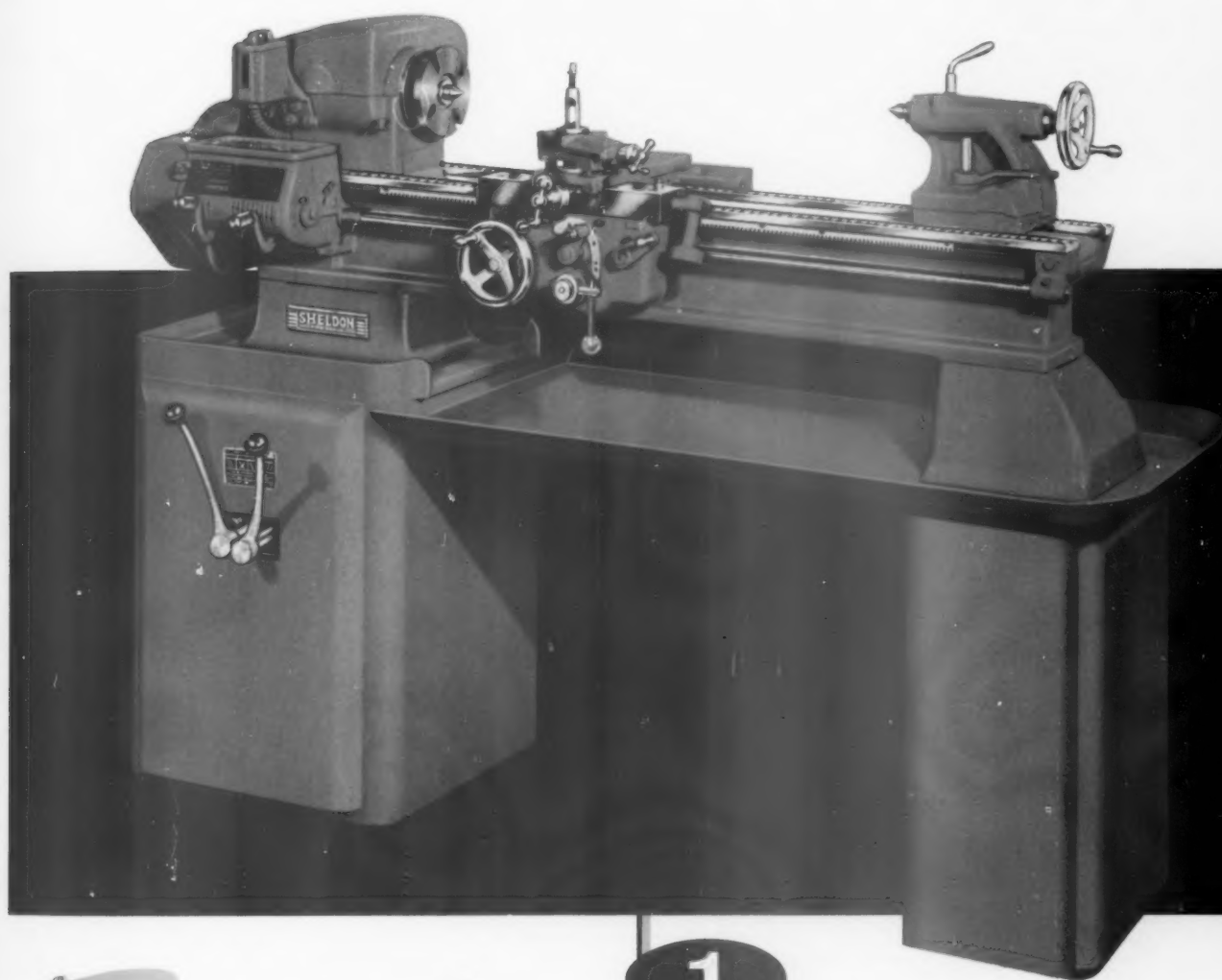
Cincinnati 9, Ohio

Each Year More Schools Buy **SHELDON**

F-3/sh

Precision Lathes

Just as in industry, school shops are modernizing their shop equipment by adding "up-to-date" Sheldon Precision Lathes. With their modern design features Sheldon Lathes are easily maintained. Their centrally-operated controls make teaching easier because students can quickly learn lathe fundamentals and confidently advance to practical class projects.



1

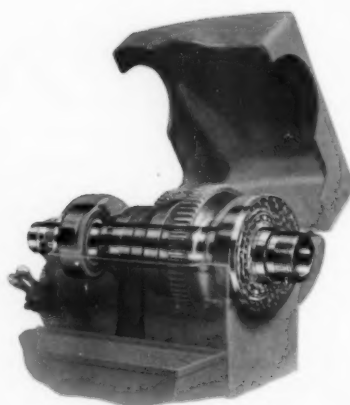
Easy to learn on

1. Controls centrally grouped, easy to operate.
2. No end gear changes with standard 54 pitch quick change gear box.
3. Modern apron has new drop lever clutch.
4. Ratchet-action tailstock clamp.
5. Large micrometer dials.
6. Full range of accessories.

2

Easy to Maintain

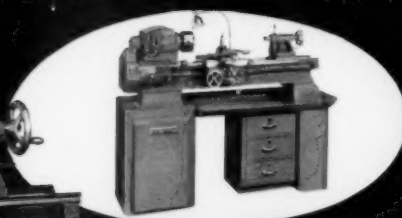
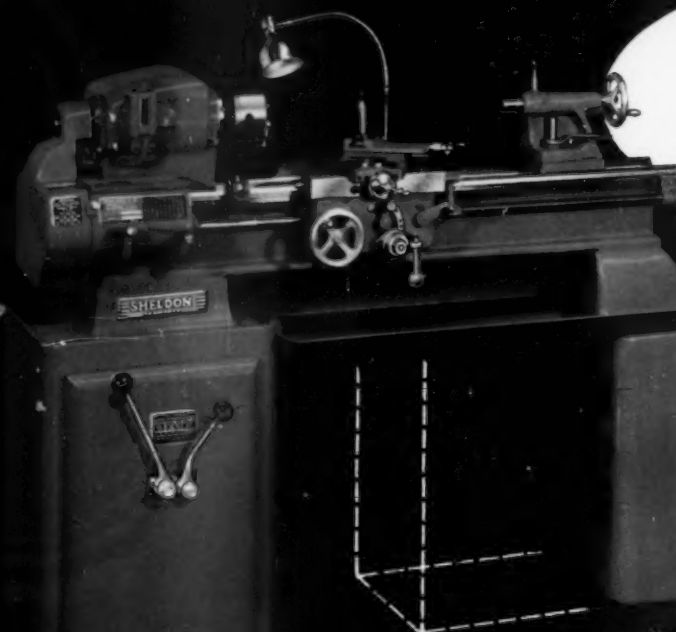
1. Spindle bearings require no rescrapping, no adjustment when changing from high or low speeds or after warm-up. Only maintenance might be a fractional turn of a take-up nut.
2. Tapered take-up gibs on cross slide and compound slide have simple one-screw adjustment.
3. Hardened bed ways available on 10", 11" and 13" Lathes with 46", 56" and 70" bed lengths.
4. End gears and back gears adjustable for backlash.
5. Hand-scraping insures accuracy and long life.
6. Simple take-up on lead screw for end play, if it should develop.
7. Neoprene cog V-belts give long-life wear.



3

Permit Practical Work Projects

1. Easy-to-operate controls build student confidence and speeds advancement.
2. Industrial in design, in accuracy and capacity.
3. Reserve power—permits demonstration of modern cutting materials; of modern feeds and speeds.
4. Full range of accessories to teach all lathe operations.



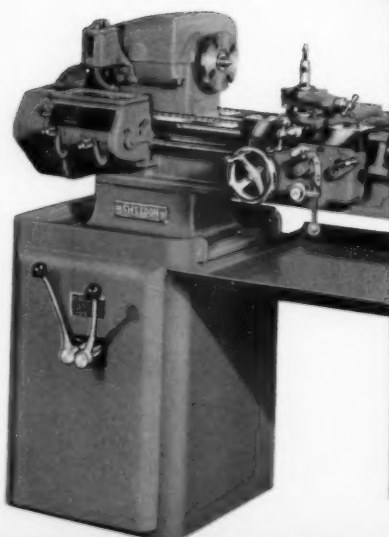
UM56P Sheldon Lathe
13" Swing, 34" Centers
with 3-drawer Lathe Cabinet

Matching 3-drawer D-E-T-A-C-H-A-B-L-E lathe cabinet either attached to inside of tailstock pedestal or can be used as a separate tool stand. Drawer units provide locked storage space for accessories, tools and work projects.

4

Modern Design

1. Smooth, clean, all-enclosed design permits clean lathes and a clean shop.
2. New cast iron pedestals and/or modern cabinet bases.
3. Modern V-belt drives.
4. Spindles for threaded, taper key-drive or other modern chucks.
5. Full Quick-Change Gear boxes—no pick-off gears.
6. All-over accuracy—Copy of test sheet with actual readings performed on lathe sent with each lathe as a guarantee of its accuracy.



5

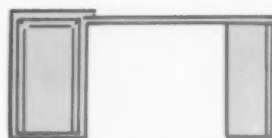
Safety

1. Fully enclosed headstocks.
2. Fully enclosed drive and motor.
3. Properly located safety switch.
4. Aluminum Shear Pins prevent overload.
5. Spline drive protects lead screw.
6. Oversize taper roller bearing withstand both side and end shock.
7. New drop lever clutch easily adjustable for varying work loads.

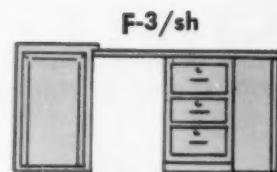
Experienced Distributors and Factory Trained Territory Men

Sheldon distributors are specially selected to handle all school shop needs. They are conveniently located—with experienced sales engineers ready to help in the layout, planning and equipping of school shops. And in each territory Sheldon has their own factory-trained engineers to assist.

(Right) The Sheldon Line provides a choice of pedestal, cabinet or floor-leg bases for Sheldon Lathes—a proper style for every school situation or budget.



Modern styled pedestal mounting



Pedestal mounting with 3-drawer D-E-T-A-C-H-A-B-L-E Lathe Cabinet

Sheldon Lathes are built with a wide range of mountings, bed lengths, drives, swings and center distances. This allows you to select the exact lathe for your academic, space and budget requirements.



Cabinet mounting with built-in chip pan and drawer unit



Floor leg and chip pan assembly for horizontal drive bench lathes

Condensed Specifications

	L	XL	S	M
Swing over bed	10 1/2"	10 1/2"	11 1/4"	13 1/4"
Distance between centers	26", 36"	26", 36"	34"	34", 48"
Hole through spindle	1 1/16"	1 3/8"	1 3/8"	1 3/8"
Drawbar collet capacity	3/4"	1"	1"	1"
Thread pitches available	48	60	60	60
Thread range per inch	4-224	4-240	4-240	4-240

Spindle Speeds

E-type underneath motor drive	(8 speed standard) (16 speed optional)	50 — 1355 50 — 1600
U-type underneath motor drive	(8 speed)	50 — 1200
Horizontal motor drive	(10" bench lathes)	59 — 1195
Variable Speed Drive	(Infinite)	40 — 2000

The new Sheldon catalog illustrates and describes 18 different machine tools with complete specifications, floor plan dimensions, and accessory information. It has a special section on "How to Select Your Sheldon Lathe", which will prove of invaluable assistance to the shop instructor, material department, school superintendent and school board—to anyone concerned with setting-up or operating a modern school shop.



Langley High School
Pittsburgh, Pa.



Mumford High School
Detroit, Michigan



Everett High School
School District #2
Everett, Washington

Other Installations

Northwestern State College
Natchitoches, Louisiana

Hayward Union High School
Hayward, California

Bergen County Vocational School
Hackensack, New Jersey

Harrison Technical High School
Chicago, Illinois

East Hartford High School
East Hartford, Connecticut

Illinois State Normal University
Normal, Illinois

University of Buffalo
Buffalo, New York

South High School
Minneapolis, Minnesota

Roosevelt High School
Seattle, Washington

Teaching Aids

Sheldon prepares and publishes basic aids for class instruction. Included among these "aids" which are available to shop instructors are:

1. Illustrated wall chart "How a Modern Lathe Operates".
2. Manual: "Care and Operation of a Lathe".
3. Student note book material: 4-page supplementary folder for distribution to students—has reduced version of Wall Chart on "How a Modern Lathe Operates", together with a chart of complete lathe nomenclature.
4. Parts manual: Exploded view drawings.



SHELDON

3000 PQ Size "O" Milling Machine



The RIGHT SIZE for School Shop

... Capacity for Practical Projects
... Versatility for both beginning
and the most advanced courses.

Sheldon Machine Tools make sense for School Shops because they fit educational needs — have the capacity and features that make for easy teaching, simple maintenance and worthwhile courses. Neither "make believe" miniatures nor unnecessarily cumbersome and expensive machines, the Sheldon Size "O" Milling Machine and the Sheldon 12" Back-Geared Shaper are of ideal size and type for worthwhile shop instruction. Every school should specify these Sheldon machine tools to augment their lathe equipment.

SHELDON 3000 PQ Size "O" Milling Machine

Features:

Variable speed drive, power table feeds, back gear unit, quick change gear box. Vertical milling attachments, coolant systems, and dividing head optional accessories for increased versatility.

Specifications:

Spindle:	No. 9 B&S taper
Feeds:	Longitudinal 12"
	Vertical (max.) 9 1/4"
	Power Feed (.0011 to .0094 per revolution)
Speeds:	(standard) 75 to 1400 RPM
	(slow speed) 20 to 250 RPM
Table Size:	5 1/4" x 22 1/4"
Dimensions:	Height — 62"
	Floor Space — 29" x 39"
Domestic Shipping Weight:	(approx.) 1300 lbs.

SHELDON 8000S 12" Back Geared Shaper

Features:

Variable Speed Drive, Swivel Table, Quick-Acting Clutch, back gear unit.

Specifications:

Length of Ram Stroke:	13 1/2"
Strokes Per Minute:	12-180
Vertical Travel of Head:	4"
Vertical Travel of Table:	7"
Top Dimension of Table:	10" by 12"
Range of Feeds:	.0025" to .0175"
Dimensions:	Height — 59"
	Width — 31"
	Length — 51"
Weight:	for domestic shipment
	(approx.) 1800 lbs.

Write for catalogs describing Sheldon 10", 11", 13" lathes, Milling Machines, Shapers and Sebastian 13" and 15" Geared Head Lathes.

SHELDON

8000S 12" Back Geared Shaper



Sebastian

13" and 15" Geared Head PRECISION LATHES

1 For larger swing — more advanced shop training, to teach the power and capacity of heavier-duty geared head lathes.

2 Most modern of geared heads — low in cost, base price includes both pedestals, and hardened bed ways.

3 Major features:

- a. Hardened bed ways.
- b. 60 pitch gear box with lead screw reverse.
- c. One-piece apron with independent drop lever clutches and one-shot lubrication system.
- d. Quiet, efficient headstock — full range of speeds, all through gears — easy-shifting color speed dial — anti-friction bearings throughout, with "Zero

Precision" tapered roller spindle bearings.

- e. Cam-action tailstock clamp.
- f. Modern pedestal legs included in base price.
- g. Large micrometer dials, friction type.
- h. Hand-scrapping for accuracy and long life as for Sheldon lathes with same test sheet guarantee.

SPECIFICATIONS

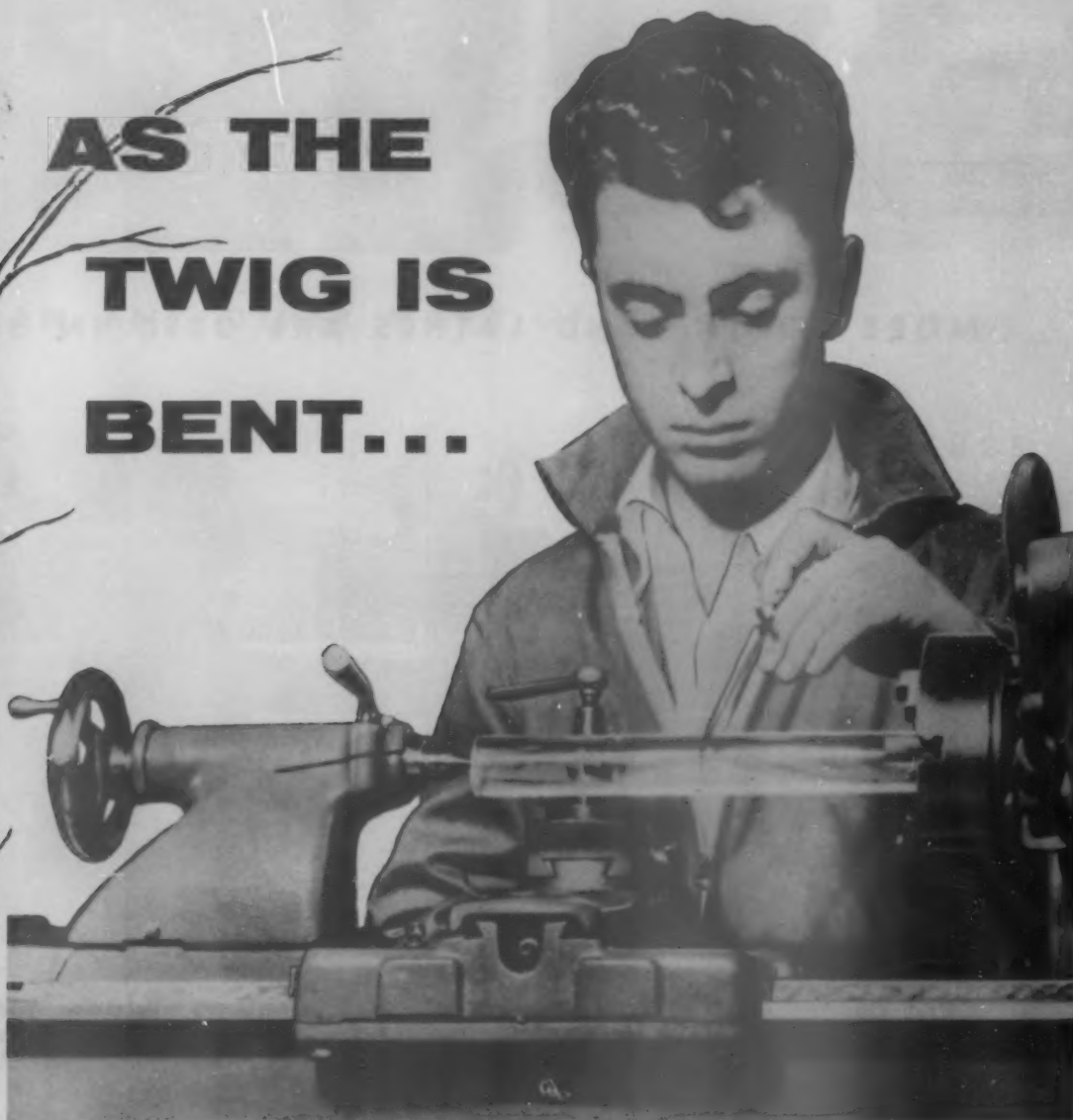
	13"	15"
Swing over bed.....	13 1/4"	15 1/4"
Swing over cross-slide.....	8 3/4"	9 1/2"
Spindle nose — standard long taper key drive.....	1.00	1.00
Hole through the spindle.....	1 3/8"	1 3/8"
Collet capacity — drawbar type.....	1"	1"
Collet capacity — spindle nose type.....	1 3/8"	1 3/8"
Thread pitches available.....	60	60
Screw threads per inch.....	4-240	4-240
Feed range.....	.002 to .120	.002 to .120
Speed range (standard).....	35 to 910 r.p.m.	35 to 910 r.p.m.
Speed range (with high speed pulley).....	50 to 1250 r.p.m.	50 to 1250 r.p.m.
Both speed ranges standard equipment		



SHELDON MACHINE CO. INC.

4263 N. KENYON AVE. CHICAGO 4, ILLINOIS

**AS THE
TWIG IS
BENT...**



SCHOOL YEARS are the formative period which lays the foundation for each student's career. This training must fulfill the future needs of every student. Those destined to fill management positions in industry especially require the advantages of practical shop courses. A thorough knowledge of basic processes and methods will help them keep pace with rapidly changing technological sciences and will play an important part in their advancement.

Highly essential in such training is the equipment used. It should be versatile, easy to operate, safe, ruggedly constructed, and accurate. All these features and more are available in South Bend Precision Lathes. That is why they have been selected for use in most of the better school shops in the United States and other countries.



SOUTH BEND LATHE

AIDS TO BETTER SHOP TRAINING

S

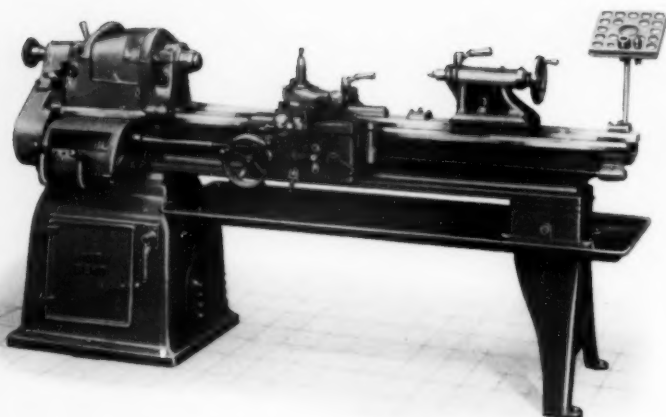
SOUTH

B

BEND

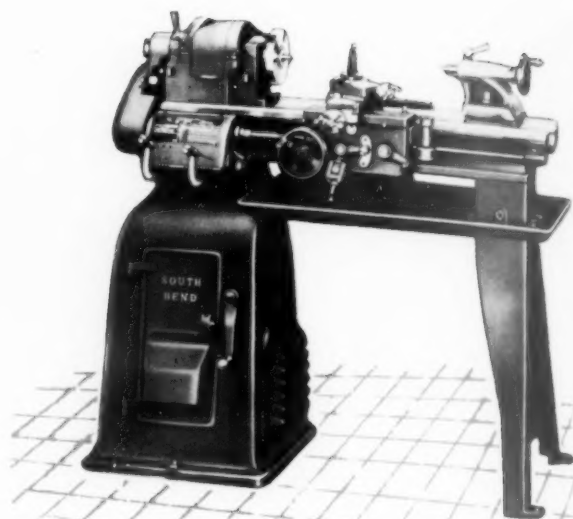
6 POPULAR MODELS

MORE SOUTH BEND LATHES ARE USED IN SHOP TRAINING



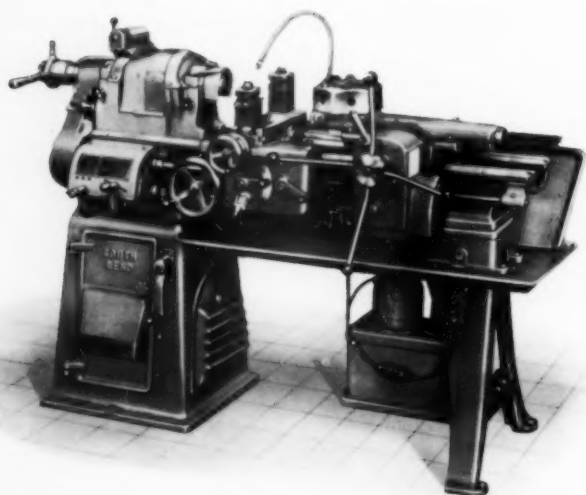
1

14 1/2" Precision Toolroom Lathe—choice of four bed lengths, 1" collet capacity, 6 to 16 spindle speeds, 48 power and thread cutting feeds. Has toggle clutch in apron and built-in leveling leg as standard equipment. **POWER FOR LARGE WORK—NOT TOO HEAVY FOR SMALL WORK.**



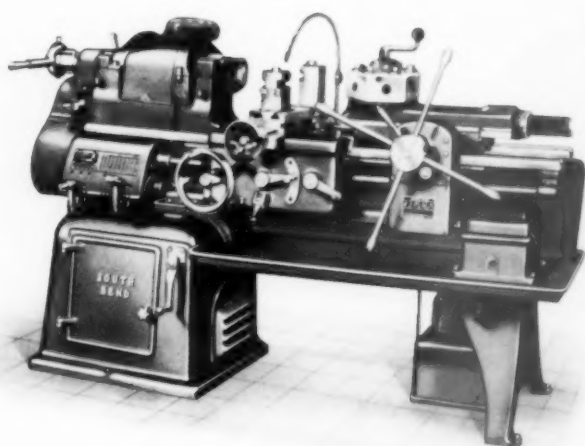
2

10" Precision Wide Range Quick Change Gear Lathe—four bed lengths, with up to 34" between centers, 1" collet capacity, 12 or 24 spindle speeds, 70 power and thread cutting feeds. Also equipped with toggle clutch and leveling leg. **HAS SAME DESIGN FEATURES AS ALL THE LARGER SOUTH BEND LATHES.**



4

13" Precision Turret Lathe—5', 6' or 7' bed length, fast, intermediate and slow turret feed, 6 or 12 spindle speeds, bar stock can be fed through holes in turret. **HAS MANY FINE FEATURES NOT FOUND ON ANY OTHER TURRET LATHE IN THIS PRICE RANGE.**



5

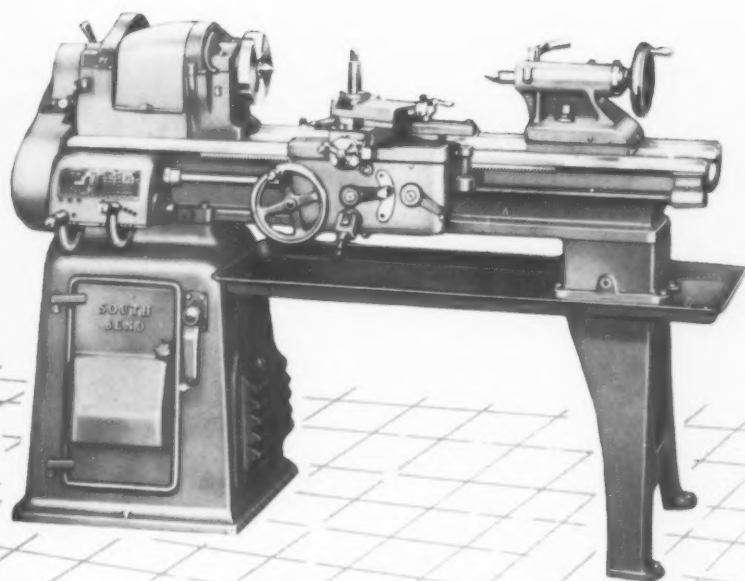
No. 2-H Turret Lathe—6' or 7' bed, 1" collet capacity, 16 1/4" swing, has toggle clutch and leveling leg, 48 power and thread cutting feeds, 6 or 12 spindle speeds. **AFTER 2-H TRAINING, JUST ONE EASY STEP FROM SCHOOL TO INDUSTRY.**

You'll find these six South Bend Lathes individually, or in combination, in just about every school shop in the United States. This is due to the simplicity and basic quality of engineering and design. These features are respected in industry as well as in the school program and results in a more profitable operation. The construction of these different model lathes, regardless of swing and weight, represents the most exacting workmanship, and assures long life, free of mistreatment by inexperienced students.

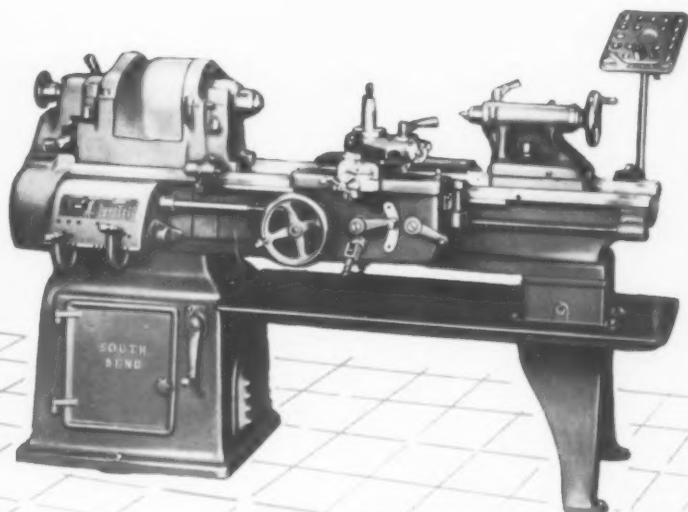
S
 SOUTH

B
 BEND

FINISHING PROGRAMS THAN ANY OTHER MAKE OF LATHE

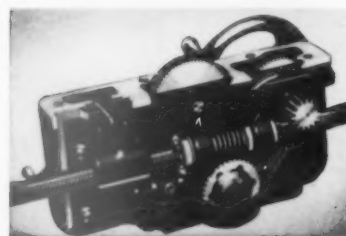


3 13" Precision Quick Change Gear Lathe—1" collet capacity, 6 to 16 spindle speeds, 4', 5', 6' & 7' lathe beds available with up to 52" between centers, 48 power and thread cutting feeds. With toggle clutch and leveling leg. THE IDEAL LATHE FOR SCHOOL SHOP TRAINING.

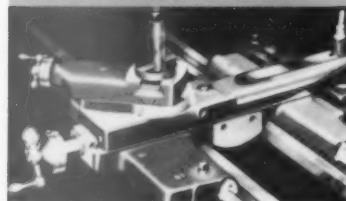


6 16" Precision Toolroom Lathe—six bed lengths, up to 134" between centers, 1" collet capacity, 6 to 16 spindle speeds, toggle clutch and leveling leg, 48 power and thread cutting feeds. SELECTED BY SEVERAL SCHOOLS FOR SENIOR OR ADVANCED MACHINE SHOP.

FEATURES



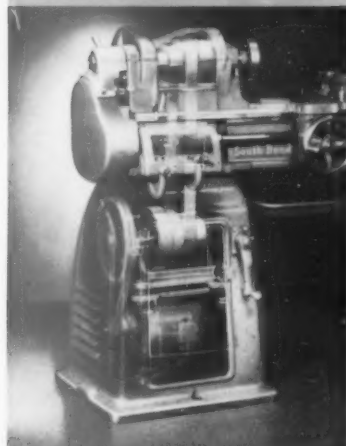
Double Wall Apron has toggle-clam actuated, multiple disc, friction clutch and close coupled half-nuts with automatic safety interlock.



Saddle has long bearings on the two outer V-ways.



Compound Rest fitted with large micrometer collars and adjustable tapered dovetail gibs. Swiveling machine handles.



Direct Belt Drive to spindle assures smooth operation at high speeds.

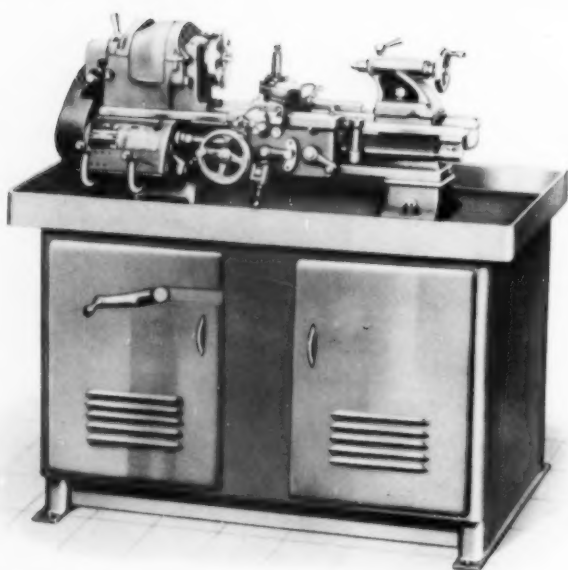
S

SOUTH

B

BEND

47 MODELS OFFERED!



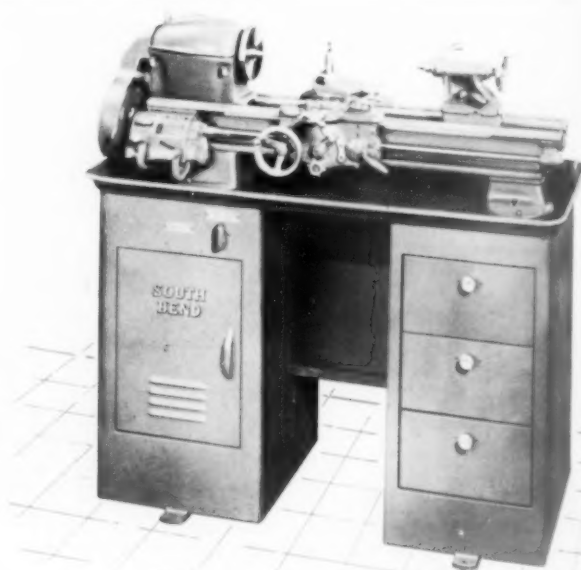
NEW 10" Precision Wide Range Quick Change Gear Bench Lathe. New modern bench. Motor and driving mechanism are fully enclosed in cabinet. Large storage compartment in right leg of cabinet. Four bed lengths, up to 34" between centers, 1" collet capacity, 70 power and thread cutting feeds. Toggle-cam operated clutch. COMPATIBLE WITH EVERY SCHOOL SHOP.



10" Floor Leg Precision Turret Lathe—1" collet capacity, 12 or 24 spindle speeds, 3 1/2' bed, has combination hand-lever and screw feed double tool slide with front and rear square tool blocks. Has toggle clutch in apron, 70 power and thread cutting feeds.
A FINE TURRET LATHE—AT A VERY REASONABLE PRICE



9" Self-Contained Motor Drive Precision Floor Lathe 1/2" collet capacity, 12 speed spindle with flat belt, 16 speed spindle with V-belt, A, B or C models with choice of four bed lengths. Toolroom models with choice of three bed lengths. Self contained drive is permanently mounted back of lathe headstock.

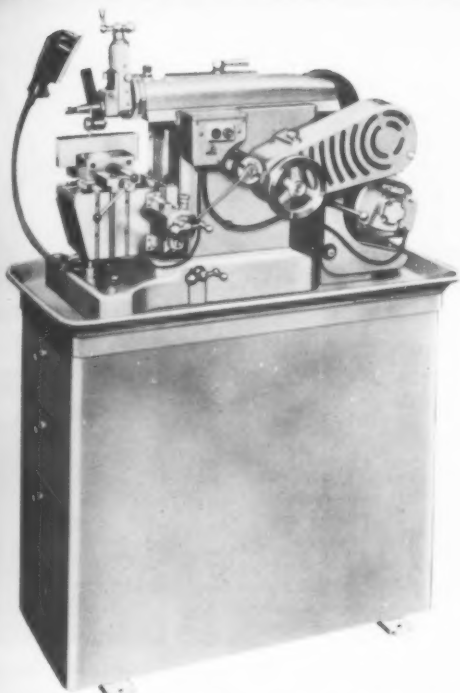


9" Precision Floor Lathe with Metal Column Base and Underneath Motor Drive—1/2" collet capacity, 3 1/2' bed, four models to choose from, has automatic safety interlock making it impossible to open end gear guard or cone pulley cover until power is disconnected. Built-in chip pan and choice of metal bench with or without drawers. THE POPULAR PRICED LATHE WITH EXPENSIVE LATHE FEATURES.

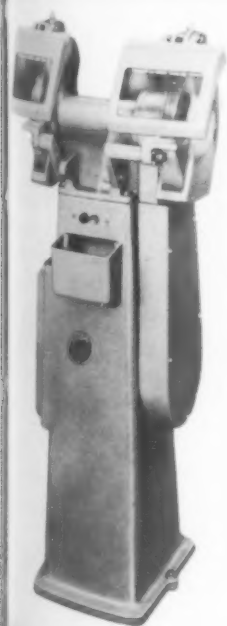
COMPLETE SHOP EQUIPMENT
LATHES — MILLING MACHINES —
SHAPERS — DRILL PRESSES — GRINDERS

S
SOUTH

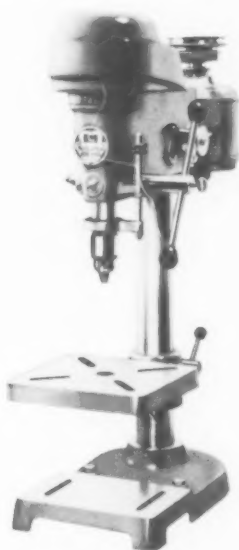
B
BEND



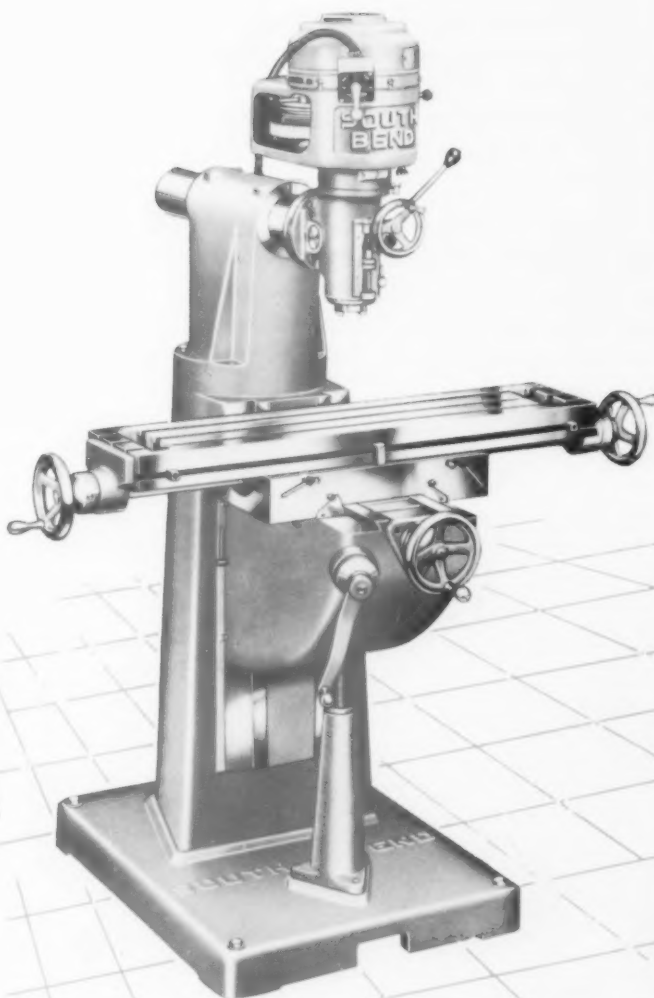
Precision Shaper—4" vise capacity, the only 7" Shaper with built-in Pressure Lubrication, tool head swivels 360°, 1 to 195 strokes per minute, 9½" horizontal table travel, 18" vertical table travel. Hundreds in Use in Industrial Plants, THE IDEAL SIZE FOR SCHOOL SHOPS.



Universal Grinder—8" or 10" wheels, approximate spindle speed 2450, sealed ball bearings, motor mounted in pedestal. SOUTH BEND QUALITY, THROUGHOUT.



14" Drill Press—generous size table, 16" between base and chuck, 11¾" between table and chuck, built-in illumination, 10 models available. Will maintain its precision accuracy under severe use.



South Bend Precision Vertical Milling Machine—Eight spindle speeds, from 135 to 3750 R.P.M. with 1 h.p. motor or 90 to 2500 R.P.M. with ¾ h.p. motor, 4" quill travel, collet capacity ¾", individual tool holders to 1" capacity, 360° rotation of head by worm and gear, Lo-Loss drive to spindle at all speeds. A big floor model Vertical Mill, in use in many industrial plants, the ideal Mill for School Shop Training Programs.

S

SOUTH

B

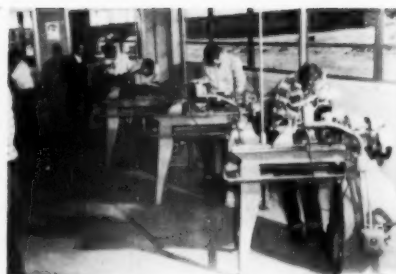
BEND

AIDS TO BETTER

If you could visit each and every school shop in this country, you would find an almost universal use of South Bend Lathes.

Since 1906 South Bend has been supplying lathes for shop training, and along with that has assisted in providing the supervisor, instructor and student with practical shop information. This assistance begins with the preparing of shop layouts and practical shop projects that make teaching easier.

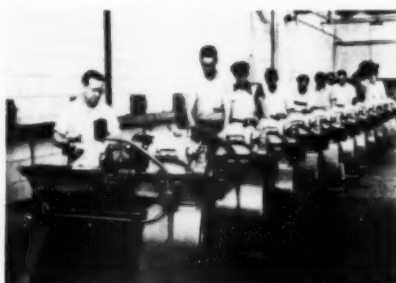
A number of these aids are described here and they are yours to take advantage of simply by asking for them. We invite you to write us requesting a complimentary desk set of the printed publications and free loan of films, scale models and slides.



Dyer Indiana High School
Dyer, Indiana



Calumet Township High School
Gary, Indiana



Kirkman Vocational High School
Chattanooga, Tennessee



Pueblo Senior High School
Tucson, Arizona



FOLLOW THE EXAMPLE OF INDUSTRY— BY USING SCALE MODELS FOR PLANNING YOUR SHOP!

SCALE MODELS—A three dimensional scale model layout kit for planning your new shop (or for rearranging an old shop) is available to you on loan without charge or obligation.

These realistic models are accurately scaled $\frac{3}{4}$ " to the foot. Models include South Bend Lathes of all sizes, Vertical Milling Machines, Shapers, Grinders, Drill Presses and Machine Operators. Floor Plan Layout Sheets ruled to the same scale are provided, which the user may keep after making the layout, to serve as a working plan for administrators, architects, and shop supervisors. If desired, the layout can be photographed. Please advise if you want to make use of a kit when planning changes in your shop.



SHOP TRAINING

S

SOUTH

B

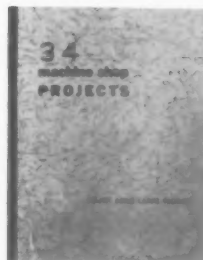
BEND



"HOW TO BOOKS"

No other book in its field has received the enthusiastic reception accorded South Bend's popular "HOW TO RUN A LATHE". Over three million copies have been distributed. This and the other hand-books clarify the operation and use of the machine and enable student to respond quickly to your instruction.

"HOW TO RUN A LATHE".....50c
 "HOW TO RUN A DRILL PRESS".....25c
 "HOW TO RUN A SHAPER".....25c



"MACHINE SHOP PROJECT BOOK"

104 pages lists 34 practical projects, from simple articles for beginners to tools requiring skill and experience to make. Drawings, instruction sheets, guide student through all operations. \$2.00.



WALL CHARTS

Ideal student guides for practical instruction, these charts are printed on heavy paper and are suitable for framing. They include "How to Become A Machinist", "Decimal Equivalents", "Principal Parts of A Lathe", "Tap Drill Sizes". Priced at 15c each. (Copy of each free to instructors and supervisors using school mailing address.)



SHOP PLANNING MANUAL

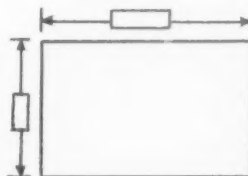
Over 100 pages of complete data and specifications covering South Bend Machine Tools. Features specifications required for making up requisitions. Complete information is included on our training aids.



MOTION PICTURES

Motion pictures on lathe operation will be loaned to you without obligation. Three 16 mm color sound films describe "The Lathe", "Plain Turning", and "Grinding Cutter Bits". These films have been shown in classrooms

all over the country, and instructors report their being an integral part of the basic format of their training program.



SHOP LAYOUT SERVICE

Send for free forms on which to sketch requirements for your shop. With the sketch you provide, we will make a drawing and supply blueprint copies to you without obligation. We have on file hundreds of shop layouts prepared for shops—small, medium, and large—with varying working conditions. All this information and help is available to you without charge by simply sending us your request.

SOUTH BEND LATHE WORKS
 SOUTH BEND 22, INDIANA

Date _____

Please book motion picture films for showing indicated below.

Title of Film	DATE FILM IS WANTED FOR SHOWING		
	First Choice	Second Choice	Third Choice
THE METALWORKING LATHE			
PLAIN TURNING			
GRINDING BASIC LATHE TOOL CUTTER BITS			

Send the films for ☐ one day ☐ two days ☐ three days ☐ four days.

Books to be ☐ English ☐ Spanish ☐ French.

Films will be shown to ☐ employees ☐ machine shop students ☐ others.

Estimated total audience is _____. Ship films to following address:

Organization _____

Address _____

State _____

By _____

Set of 35 mm color slides available as excellent supplement to the motion picture films. Set consists of 150 slides in 2" x 2" mounts. Check here if loan of slides is desired ☐

SOUTH BEND LATHE WORKS
 SOUTH BEND 22, INDIANA

Date _____

Please send items indicated below:

	Price	Amount Enclosed
<input type="checkbox"/> How to Run a Lathe.....	\$0.50	
<input type="checkbox"/> How to Run a Drill Press.....	0.25	
<input type="checkbox"/> How to Run a Shaper.....	0.25	
<input type="checkbox"/> Quiz Sheets (100).....	0.75	
<input type="checkbox"/> South Bend Project Book.....	2.00	
<input type="checkbox"/> Wall Chart No.	0.15	
	Total	

Name _____

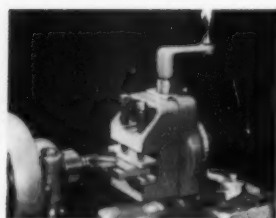
Street _____

City _____ Zone _____ State _____

S

B

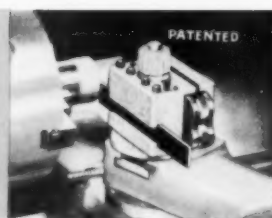
Attachments and Accessories



MILLING
ATTACHMENT



HAND WHEEL
COLLET ATTACHMENT



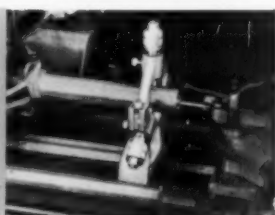
10 IN 1 TOOL HOLDER



BALL BEARING
LIVE CENTER



THREAD
INDICATOR DIAL



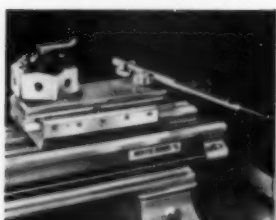
TELESCOPING JAW
STUDY REST



LARGE FACE
PLATE



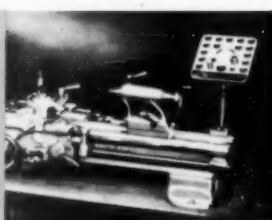
TELESCOPING JAW
FOLLOWER REST



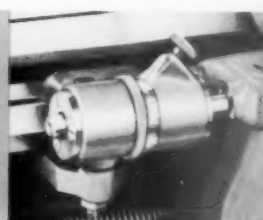
HAND LEVER
BED TURRET



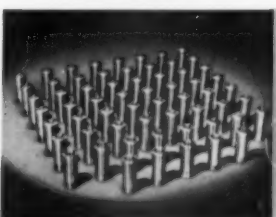
SET OF 6 STANDARD LATHE
DOGS $\frac{3}{8}$ " TO $1\frac{1}{2}$ " CAPACITY



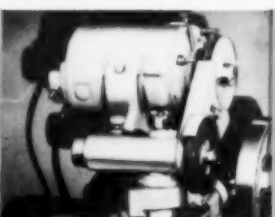
COLLET RACK



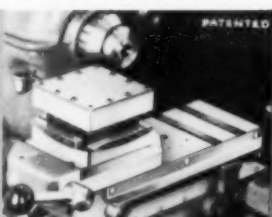
MICROMETER
CARRIAGE STOP



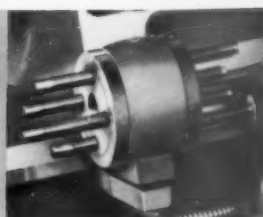
COLLETS FOR
ROUND WORK



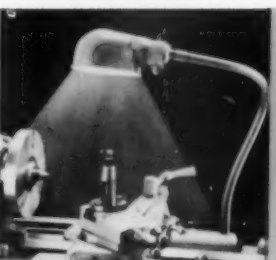
EXTERNAL
GRINDER



TURRET
TOOL BLOCK



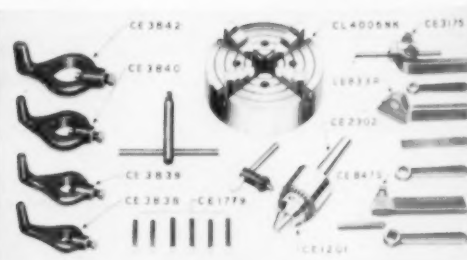
FOUR POSITION
CARRIAGE STOP



WORK LIGHT
FOR LATHE



TAPER ATTACHMENT



CHUCK AND TOOL
ASSORTMENT



SOUTH BEND LATHE

Building Better Tools Since 1906 — 425 East Madison Street — South Bend 22, Indiana

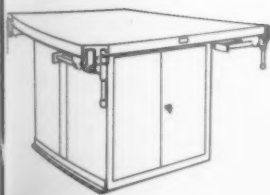
F-3/SPS

HALLOWELL

a complete line of school shop furniture



Photo courtesy Abington Township Senior High School • Abington, Pa.



STANDARD PRESSED STEEL CO.

SPS

JENKINTOWN, PENNSYLVANIA

STEEL WOODWORKING BENCHES



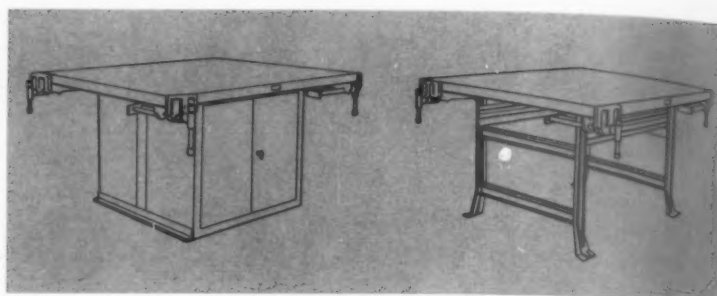
4-POSITION

Model 1000-L Locker Base
Top: 64" x 54", 2 1/4" laminated wood.



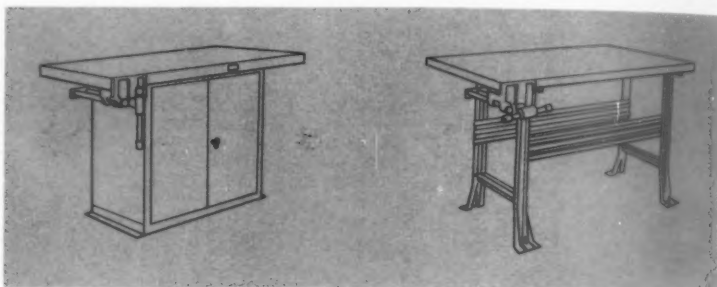
2-POSITION

Model 1005-L Locker Base
Top: 64" x 24", or 30", 2 1/4" laminated wood.



Model 1000-C Cabinet Base
Top: 64" x 54", 2 1/4" laminated wood.

Model 1010 Open Base
Top: 64" x 54", 2 1/4" laminated wood. Nominal Heights: 31", 33", 36".



Model 1005-C Cabinet Base
Top: 64" x 24", or 30", 2 1/4" laminated wood.

Model 1015 Open Base
Top: 64" x 24", or 30", 2 1/4" laminated wood. Nominal Heights: 31", 33", 36".

All Woodworking Benches available with or without vises.



SHEET METAL BENCH Model 1026
Top: 5, 6 and 8 ft. lengths x 42", laminated wood (2 1/4"). Complete with stake plates. Nominal heights: 31", 33", 36".



MACHINE AND LAYOUT BENCH Model 1030
Top: 5, 6 and 8 ft. lengths x 42", laminated wood (2 1/4"). Nominal heights: 31", 33", 36".



GLUE BENCH Model 1018
Top: Steel, 60" x 24". Height 35". Special storage for Bar, Screw and "C" Clamps. Also available with stainless steel top.

STEEL ELECTRICAL AND TESTING BENCHES



Model 1043 Electrical Bench with Cabinet Base. Top: 4, 5 and 6 ft. lengths; 24" and 30" depths.



Model 1044 Electrical Test Bench with Unit Base. Top: 5 and 6 ft. lengths; 24" and 30" depths. Heights: 31 1/4", 33 1/2".



Model 1049 Four Student Electrical Bench with four Drawer Pedestal Bases. Top: 72" x 48", 1 1/2" Shop Top.

All Electrical Benches are available with either electrical outlet or test panel.



DRAWING TABLE AND STORAGE UNIT



New concept in drawing class furniture is this 42" x 30" drawing table with a 1 1/4" laminated wood top and satin finished tubular aluminum frame. Guides under board hold individual student supply drawer from central storage unit.

Components:

Drawing Table **Model 1055**

4-Drawer Storage Unit **Model 6402**

Base for 4-drawer Storage Unit. . . **Model 6408**

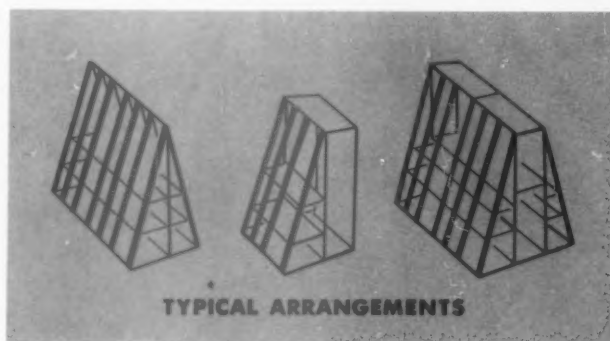
Drawing Board Storage Cabinet. **Model 1058**

Stool, With Adjustable Seat **Model 242-R-27**

Central Storage Units are available separately or in groups—may be set up vertically or horizontally.



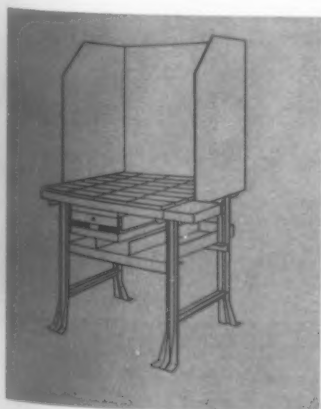
MOULDING BENCH Model 1095
Top: 60" x 24". Height 35". Storage space with sliding doors.



TYPICAL ARRANGEMENTS

LUMBER STORAGE RACKS Model 1100

Three basic units: Rack (for vertical storage), Open Unit (for plywood) and Shelving. May be combined or used separately.



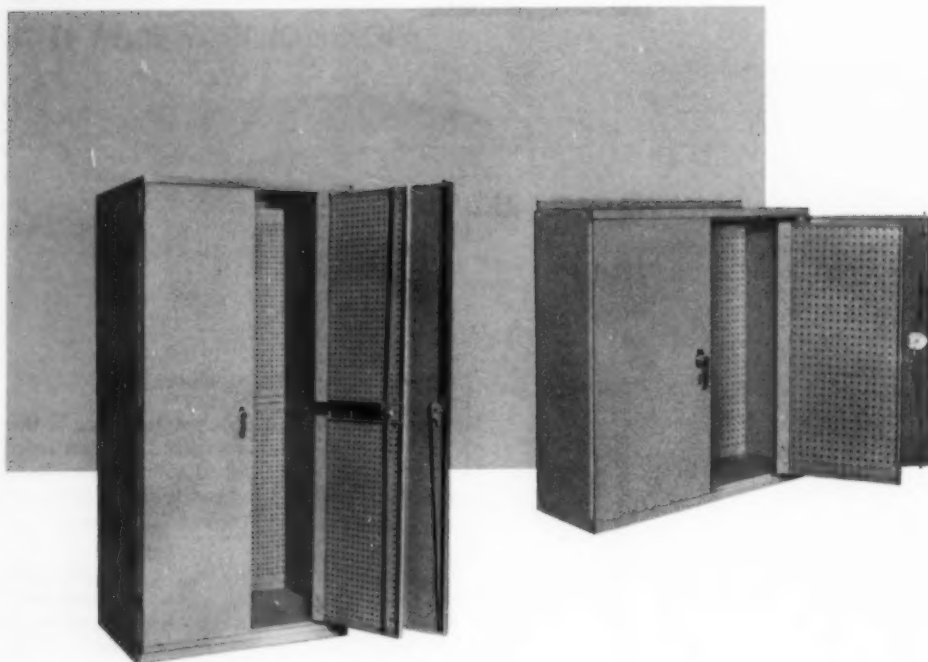
ARC WELDING BENCH Model 1114
Top: 36 3/4" x 36 3/4". Overall height 70" (34" to work surface). Complete with safety shield. Vise stand optional.



GAS WELDING BENCH Model 1110 Top: 36 3/4" x 36 3/4". Height 34". Vise stand optional.



SOLDERING BENCH Model 1090
Top: 4, 5 and 6 ft. lengths x 29". Height 31 3/4". Top covered with 3/8" heat resistant Transite.



TOOL STORAGE CABINETS

Model 1074 Floor Type
36" wide, 25" deep, 75" high. Contains 65 square feet of usable steel peg board storage, including inner doors.

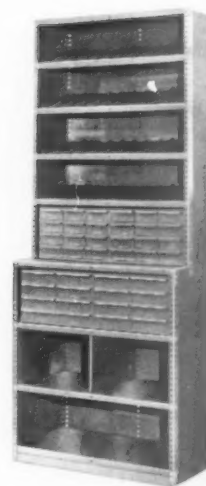
Model 1072 Wall Type
36" wide, 13" deep, 37" high. Contains 24 square feet of usable steel peg board storage, including inner doors.



STAIN AND FINISH CABINET
Model 1060 Overall dimensions: 7'3" high, 48" wide, 24" deep. Sliding doors with cylinder locks.



APRON AND BOOK STORAGE RACK **Model 1080** 39" high, 36" wide, 12" deep.



TOOL CABINET **Model 1070** Overall dimensions: 7'3" high, 36" wide, 18" deep. Contains 40 storage drawers and 4 sloping shelves.

Write for full information and specifications on
HALLOWELL's complete line of School Shop Furniture



HALLOWELL DIVISION

STANDARD PRESSED STEEL CO.

SPS
JENKINTOWN PENNSYLVANIA



PRECISION BUILT

VOCATIONAL EDUCATION EQUIPMENT

ART TABLES

DRAFTING TABLES

SHOP BENCHES

SHOP FURNITURE

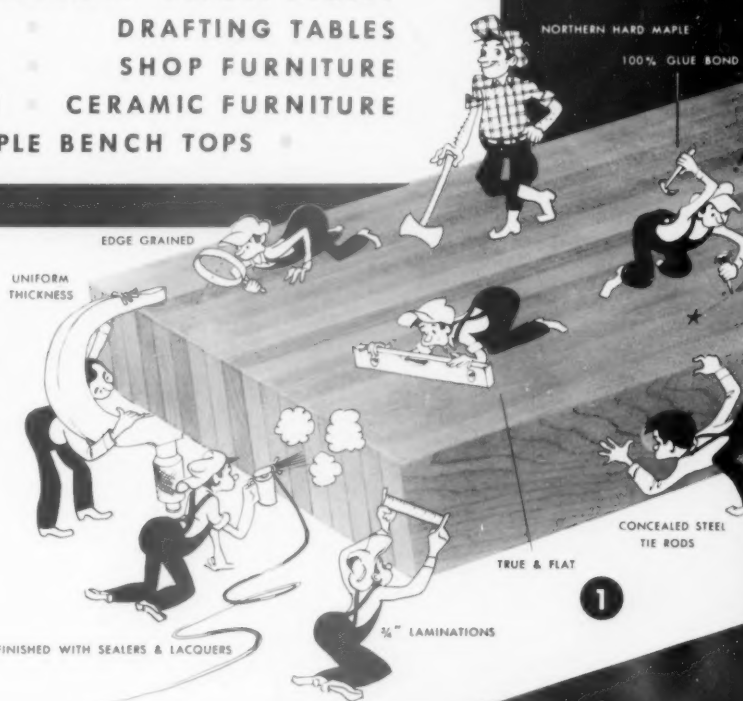
LABORATORY FURNITURE

CERAMIC FURNITURE

LAMINATED MAPLE BENCH TOPS

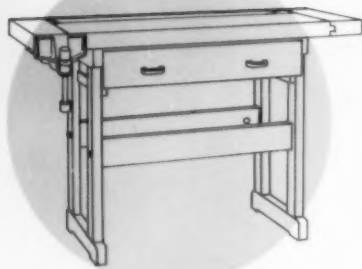
Since 1894, The Tolerton Company has specialized in the manufacture of precision built wood products. Forestry experts, skilled craftsmen and a continuous research program are all devoted to producing the very best Vocational Education Equipment. Our constant aim is to manufacture the type of equipment needed to meet the demands of an ever expanding educational system. It is our sincere desire to build our products to do the job expected and required and not merely to meet a price.

- 1 TOLCO TOP Edge grained Northern hard maple. Narrow laminations electronically glued. Available from 1 1/4" to 4" thick, full range of widths and lengths.
- 2 TOLCO ACID RESISTANT TOP A standard Tolco top treated with multiple coats of chemical resistant materials. Full range of sizes. Illustration shows edge grain in sawed section.
- 3 MODEL TLC-2860 Two Student Combination Science Table with laboratory top and accessories. Top 1 1/4" x 28" x 60".
- 4 MODEL TM-12A Four Student Bench with Tolco top reinforced with heavy angle iron spline. Top 2 1/4" x 54" x 64". Patents Pending.
- 5 MODEL TLI-2860 Instructors Demonstration Desk with laboratory top and adequate drawer and cupboard space. Top 1 1/4" x 28" x 60".
- 6 MODEL TPC-60 A new Planning Center for use in many departments. Illuminated tracing table.



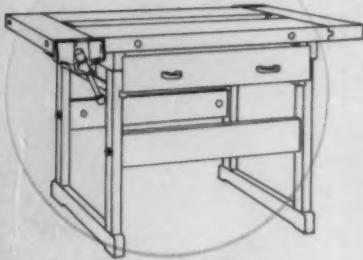
PRECISION BUILT

INDUSTRIAL ARTS EQUIPMENT



MODEL T-1 An open frame, single student bench with 1 drawer. **MODEL T-O** without drawer. Top 2 1/4" x 22" x 52".

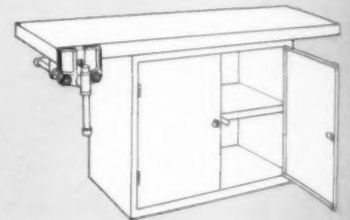
The first electronic gluing equipment used in the woodworking industry was developed in the Tolco mills. The process was first used to fabricate critical wooden parts for the aircraft industry and later it was used to glue maple laminations to form Tolco tops. Our research work indicated that a critical control of the gluing operation was necessary to control moisture absorption during the glue drying cycle. Electronic gluing made such control possible resulting in a top that was less susceptible to warpage and twist. To secure a 100% glue bond in every glue area research indicated that electronic gluing in itself was not the complete answer. Maple laminations in excess of 3/4" were too rigid for proper gluing pressure. Narrow 3/4" laminations together with electronic gluing provide a top that we found superior in every test. Tolco equipment is furnished with a top using only 3/4" laminations and electronic gluing.



MODEL T-2 Open frame 2 student bench with drawer on each side. Several variations of this model available. Top 2 1/4" x 36" x 52".



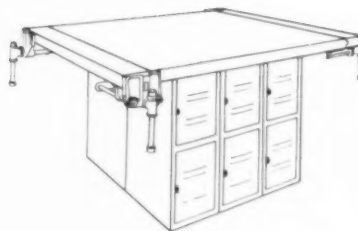
MODEL TV-14 Two Student Machinists' Bench with flat surfaced Tolco Top. Seven drawers on each side. Top 2 1/4" x 36" x 52".



MODEL TM-4 Metal Based Bench for either one or two students. Single 4 compartment base. Top 2 1/4" x 27" x 64".



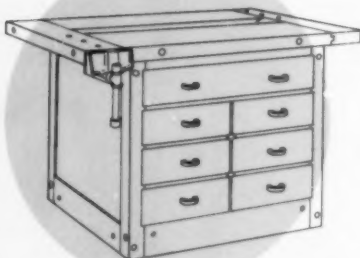
MODEL T-10 Two Student Bench all wood construction. Five drawers on each side. Top 2 1/4" x 36" x 52".



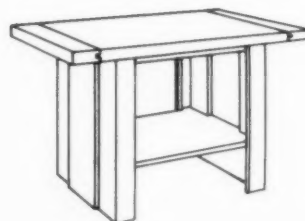
MODEL TM-12 Four Student Bench with metal locker base. Standard batten reinforced Tolco top 2 1/4" x 54" x 64".



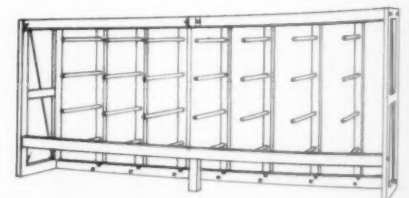
MODEL TM-6 Can be used as either a one or two student unit. Metal locker base. Top 2 1/4" x 27" x 64".



MODEL T-14 Two Student Bench—wood construction. Seven drawers on each side. Top 2 1/4" x 36" x 52".



MODEL T-5236-S Shop Bench for woodworking or machine shop. Metal base with modern styling. Top 2 1/4" x 36" x 52".



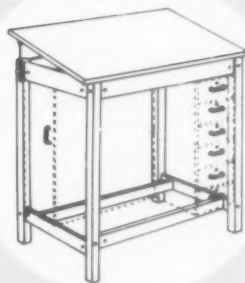
MODEL T-530 Lumber Rack. Hard maple frame with 1 1/4" iron pipe lumber supports. 22" deep, 6' high, 13' long.



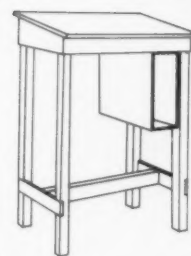
MODEL T-703 Drawing Table with maple frame, adjustable, non-warping Novoply top and reference ledge. Height 30".



MODEL TD-6 Drafting or Art Table—maple frame, 6 board storage cabinet. Non-warping Novoply top. Height 36".



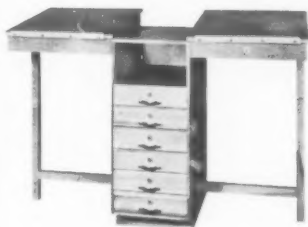
MODEL T-620 Drafting Table with hard maple frame. Board storage and drawer cabinets available. Height 40".



MODEL TEC Economy Drawing Table. Hardwood construction — Adjustable top available. Height 39".



MODEL T-30S Metal Drawing Table illustrated with T-15DCS instrument and board storage cabinet. Height 36".



MODEL TA-6 Two Student Art Table with non-adjustable tops, center reference shelf and book compartment. 6 locked drawers. Height 36".



MODEL TA-2 Two Student Art Table with two tilting tops and stationary center section. Large storage cabinet and drawer. Height 30".



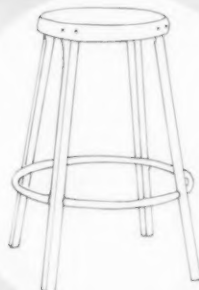
MODEL TA-60P Fine Arts Table —maple frame with honey colored plastic top 1-3/16" x 42" x 60". Height 30".



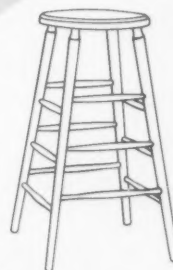
MODEL TAH Art Bench. Hard maple construction. Overall length 29" seat height 16 1/4".



MODEL TAB Art Student Bench. Sizes 17" x 12" x 17" or 17" x 12" x 26".



MODEL TAJ Steel Stool—all welded construction. Heights 18, 20, 22, 24, 26, 28 and 30 inches.



MODEL T-30 Utility Stool. Sturdy hardwood stool 30" high.



MODEL RSS Ajustrite Stool—models with seat height adjustable 18" to 26", 22" to 30", 26" to 34".



MODEL T-1413 Captain's Chair. A sturdy yet comfortable chair. Hardwood finished light maple.



MODEL T-834 Chair. Sturdy hardwood chair at economy price. Seat height 16 3/4".



MODEL TK-2 Two Student Kindergarten Table. Maple frame, laminated top 1 3/4" x 28" x 42".

New



LABORATORY FURNITURE

The success of Tolco Laboratory Tops in industrial laboratories and hospitals lead to the development of the new Tolco Laboratory Furniture for secondary schools. We have been guided by the advice and counsel of many people associated with the educational system. They have recognized the need for standardization of design and construction.

Every Tolco laboratory unit has been designed and built to the well recognized standards of material and craftsmanship that are a part of the Tolco tradition.

Now it is possible to equip your Chemistry, Physics, Biology or General Science laboratories with the finest laboratory furniture without the expense of custom engineering and factory installation charges. Tolco units are adaptable to a wide range of room arrangements depending on your own student requirements.

MODEL TLS-2836
Sink Unit — Tolstone or Tolco carbonized top—one shelf in cupboard—one cold water gooseneck and one hot and cold mixer gooseneck.



MODEL TLP-2860 2 Student Physics or General Science Table. Tolstone or Tolco carbonized top $1\frac{1}{4}$ " x 28" x 60".



MODEL TLG-4860 4 Student Physics or General Science Table. 48" wide x 60" long. Other sizes available.



MODEL TLI-2896 Instructor's Demonstration Table. Tolstone or Tolco carbonized top $1\frac{1}{4}$ " x 28" x 96".



MODEL TLB-4860 4 Student Biology or General Science Table. Carbonized Tolco top $1\frac{1}{4}'' \times 48'' \times 60''$. Other sizes available.



MODEL TLSB-2860 2 Student Biology or General Science Table. Tolstone or Tolco carbonized top $1\frac{1}{4}'' \times 28'' \times 60''$. 2 book compartments—shelf in cupboard—1 electrical outlet.



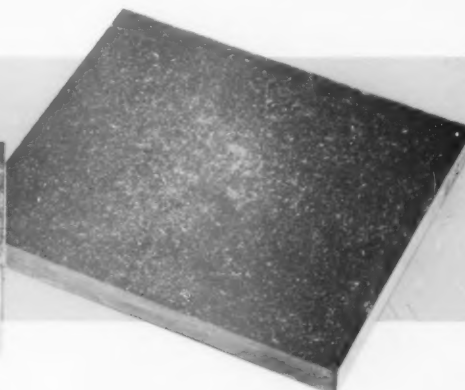
MODEL TLT-3037 Movable Laboratory Table provides extra demonstration space.



MODEL TLSB-4860 4 Student Biology or General Science Table with 2 double gas cocks, 2 electrical outlets and 4 drawers.

TOLSTONE..

Tolstone laboratory tops combine attractive appearance, strength and high chemical resistance to most common laboratory chemicals. Tolstone defies abuse and retains its factory finish.



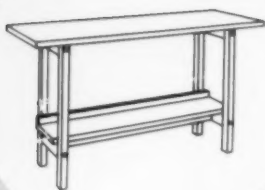
STYLE A Wood Cabinet Base Section. Ideal for building up wall sections or island units.



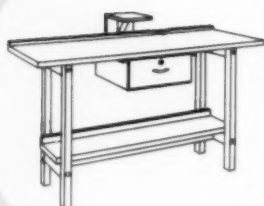
STYLE B Wood Cabinet Base Section. Can be used same as Style A or in combination.



Tolco carbonized top with back splash. Wide variety of applications.



MODEL TGS-60 Glue and Stain Table with hard maple frame. Plywood top covered with galvanized steel. Top $1\frac{1}{4}$ " x 24" x 60".



MODEL T-326 Soldering Bench. Hard maple frame with asbestos covered plywood top. Top $1\frac{1}{4}$ " x 24" x 60".



MODEL TC-37 Clay Storage Cabinet. Waterproof plywood construction with galvanized steel lining.



MODEL T-4272 General Purpose Table with laminated maple top $1\frac{1}{4}$ " x 42" x 72". 24" wide model available.



MODEL TV-10 Two Student Machine Bench—5 drawers each side—Tolco top $2\frac{1}{4}$ " x 36" x 52".



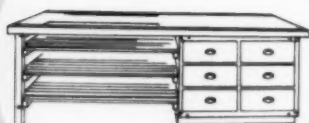
MODEL TV-2 Two Student Machine Bench with open frame—1 drawer each side. Tolco top $2\frac{1}{4}$ " x 36" x 52".



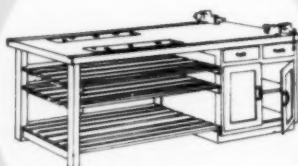
MODEL TSB-60-35 Sheet Metal Bench with stake plates, steel frame and shelves. Tolco top $2\frac{1}{4}$ " x 40" x 60".



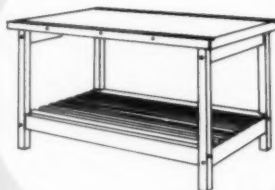
MODEL TW-OA Four Student Bench with open frame. Steel splined Tolco top $2\frac{1}{4}$ " x 54" x 64". Patent pending.



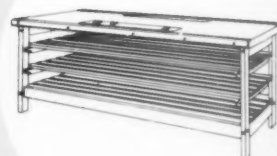
MODEL T-316 General Shop Bench. Complete with Tolco top, stake plate, angle iron on front and back edges. Top $2\frac{1}{4}$ " x 48" x 96".



MODEL T-316-A General Shop Bench—Large Storage area. Tolco top with stake plates and angle iron. Top $2\frac{1}{4}$ " x 48" x 96".



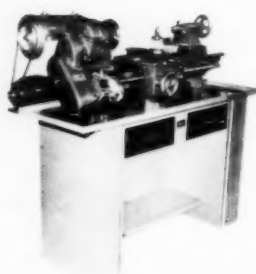
MODEL TSB-60-1 Sheet Metal or Machine Shop Bench. Angle iron edges on Tolco Top. Top $2\frac{1}{4}$ " x 40" x 60".



MODEL TSB-96-3 Sheet Metal Bench. Hard maple, Tolco top with stake plates and angle iron edges. Top $2\frac{1}{4}$ " x 40" x 96".



MODEL TVB-3684 Bar Rack. Arc-welded construction—finished Shop Green. Stands 84" high, 36" wide.



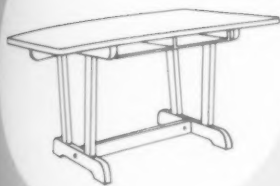
MODEL TCT-60 Machine Cabinet Stand with coolant top and drain connection.



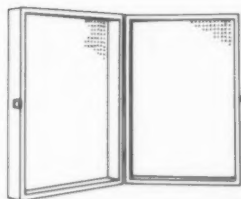
MODEL T-3236 Shop Cabinet Style Desk. All welded steel construction. Several models available.



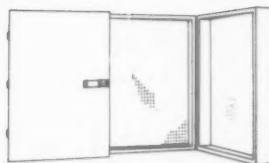
MODEL TSDC Steel Utility Table. 300 lbs. capacity per shelf—welded construction—several models.



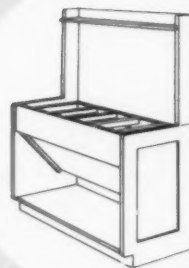
MODEL TA-60 General Purpose Table with Tolco laminated top $1\frac{3}{4}$ " x 42" x 60".



MODEL TWS-3042-S Wall Tool Storage Cabinet with single door. Birch plywood—heavy duty pegboard.



MODEL TWS-6042-D Wall Tool Storage Cabinet with 2 doors. Birch plywood and heavy duty pegboard.



MODEL TMB Moulders Sand Hopper. Hard wood construction with galvanized lining.



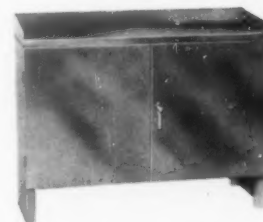
MODEL TM-8A Four Student Bench. Steel splined Tolco top $2\frac{1}{4}$ " x 54" x 64". Pats. pending.



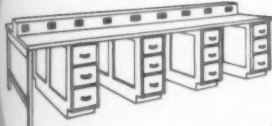
WALL ASSEMBLY UNITS Metal Locker Base Units—utilizes wall space. Tolco tops manufactured to fit each installation. Illustration shows 4 base units.



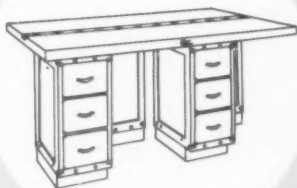
MODEL TFS General Shop Bench with steel legs, stringer and shelf. Tolco laminated top. Various sizes.



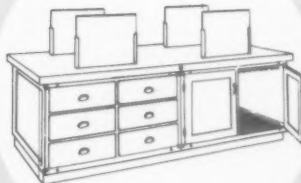
MODEL TCK-1848 Steel Tool Cabinet Benches. Heavy duty steel top bench 34" high—various widths.



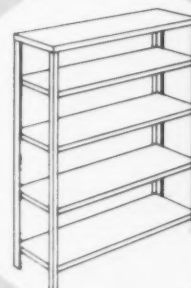
MODEL T-314 Electrical Bench. All hard maple construction. 18 duplex receptacles in wiring tunnel. Top $2\frac{1}{4}$ " x 54" x 144".



MODEL TE-72 Electrical Bench designed for limited budgets. Six drawers each side with wire strip down center of top. Top $2\frac{1}{4}$ " x 48" x 72".



MODEL T-312 Wiring Bench, complete with removable wiring boards, drawers, and storage cabinet. Top $2\frac{1}{4}$ " x 48" x 96".



MODEL TDR-1842 Die Rack Heavy duty units with channel reinforced shelf. Various sizes.



STEEL BENCH DRAWERS Can be fastened to wood or steel benches. All welded construction. 1 - 2 and 3 drawer units.



MODEL T-90 HAND TRUCK—For general shop use. All welded construction—rubber tires.



STOCK CARTS—200 lbs. capacity per shelf—welded construction. Several sizes and types.



MORGAN VISES Complete range of types and sizes for every school requirement.



MODEL TWD Drafting or Art Table with fully adjustable top. Hard maple construction. One large drawer and board storage cabinet.



MODEL TM-8 Four Student Bench with metal base. Each side has two door, four compartment storage area. Top 2 1/4" x 54" x 64".



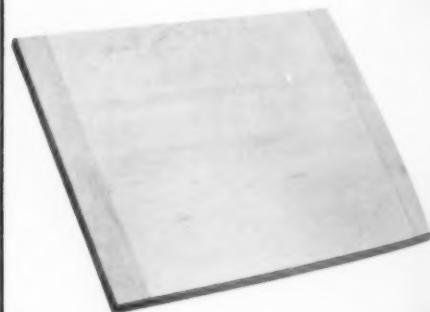
MODEL TW-0 Four Student Bench with open maple frame base. Ideal for the school that has adequate storage facilities.



MODEL TT Tote Tray Cabinet. Maple frame with birch panels. Holds 48 tote trays.



MODEL TS-48 Tool Storage Cabinet. Maple frame with birch panels. Two rotating tool panels. Very sturdy construction.



BASSWOOD DRAWING BOARDS Made in a complete range of sizes from select basswood.



The major items in the Tolco line are shown in this leaflet. Space limitations prevent showing several adaptations of some models. However, our regular catalog gives complete information, large illustrations and dimensional drawings of all models. Special models can be built to your own specifications.

Write today for your copy of the complete Tolco catalog.



THE TOLERTON COMPANY
265 North Freedom Avenue
ALLIANCE, OHIO

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The
Cincinnati
World's
Representative

AMERICA

THE R. K. LeBLOND MACHINE TOOL COMPANY

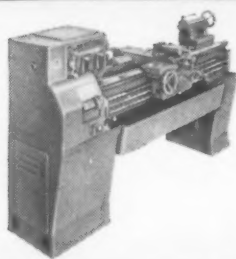
Cincinnati 8, Ohio

LeBlond Regal Lathes

The low-cost lathes with the big-lathe features

13", 15", 17", 19"

Regals

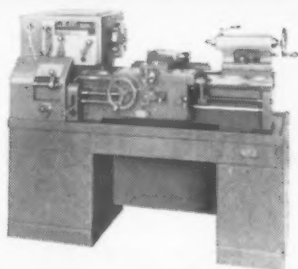


Designed and built like heavy-duty lathes, the new LeBlond Regals will give you a long life of precision performance in your training shop—the kind of dependability and big-lathe features you'd expect from a much higher-priced machine.

Major features, 15" machine shown: Combination gear-belt drive headstock. 12 spindle speeds, low and high range. 48 feeds and threads. One piece apron. Also available in 21" and 24" models.

13"

Bench Regal

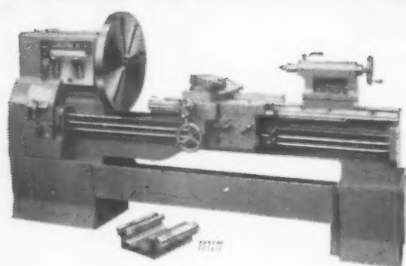


LeBlond Regals have *both* leadscrew and feed rod, hardened and ground replaceable steel bed ways, one-piece apron, one lever to control both cross and length feed, anti-friction bearings and many other big-lathe features.

Major features, 13" Bench Model: Lathe features same as standard 13" Regal (above). Cabinet-type bench contains nearly 5 cubic feet of well-organized storage space. Built-in chip pan drawer. Heavy steel, welded construction.

17", 19"

Plain Bed Gap Regals



LeBlond Regal Lathes are ideal for training. They handle a wide range of turning work, enable you to give your shop students well rounded turning experience. LeBlond Regals are the most modern and dependable light-duty turning machines in the world.

Major features, 17" and 19" Plain Bed Gap Lathes: These lathes differ from regular engine lathes, only in their bed, carriage and apron construction. The bed has a gap into which fits an accurately machined gap block, held rigidly in alignment by locating pins and screws. Ideal for work with wide flanges or projections.

Write for complete catalog R-201-O

The R. K. LeBlond Machine Tool Company

Cincinnati 8, Ohio

World's largest builder of a complete line of lathes for more than 70 years

Representatives in principal cities throughout the world

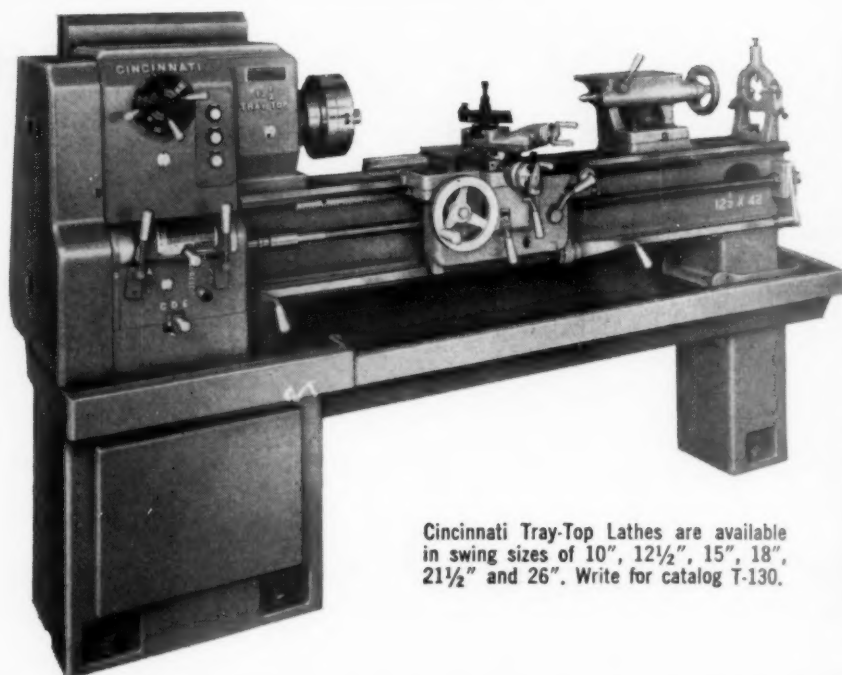
AMERICAN SCHOOL AND UNIVERSITY—1958-59



CINCINNATI LATHE AND TOOL CO.

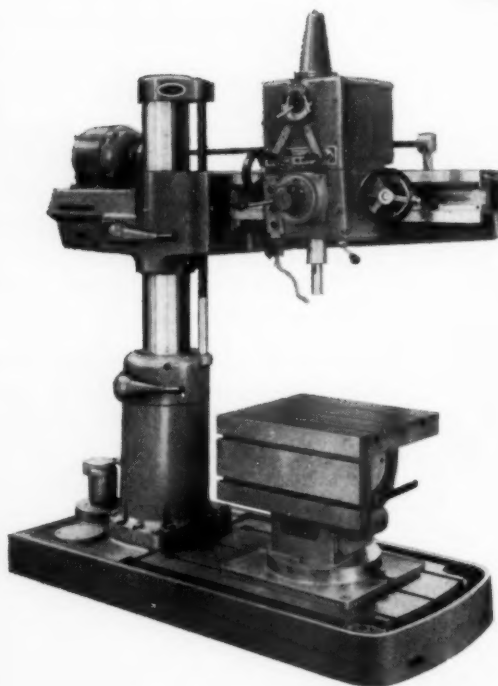
Cincinnati 9, Ohio

TRAIN
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TOOLS
INDUSTRY
USES



Cincinnati Tray-Top Lathes are available in swing sizes of 10", 12½", 15", 18", 21½" and 26". Write for catalog T-130.

CINCINNATI

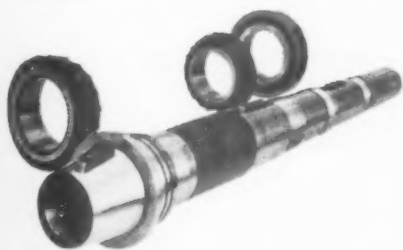


For details on Cincinnati Radial Drills, write for Catalog D-133; on Royal Drills, bench and floor models, write for Catalogs D-136 and D-134.

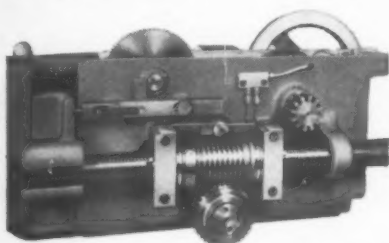
CINCINNATI LATHE AND TOOL CO.

CINCINNATI LATHES

- have all needed features
- meet school budget requirements



Extra-large, heat-treated, forged alloy steel spindles. Long, tapered key drive is accurate, durable, safe.



One-piece, double-walled apron holds built-in oil reservoir. Spring-loaded safety clutch prevents overload damage.

ADAPTABLE to many operations on all common metals and plastics. 12 speeds, all geared in geometric progression, 40-to-1 over-all ratio. 48 thread and feed changes. Top speeds to 1800 rpm.

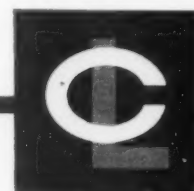
EFFICIENT—simple, direct motor drive; minimum gear contacts; spindles mount in 3 large antifriction bearings; fully enclosed quick-change gearbox.

CONVENIENT—Centralized controls; instant speed selection with 3-lever, direct-reading, "color-match" dial; start-stop spindle control at apron and quick-change gearbox.

DURABLE—Antifriction bearings, amply lubricated; integrally splined shafts and spindle; hardened gears in headstock, apron and quick-change gearbox; flame-hardened and ground bedways.

SAFE—Feed stops if stray objects fall on drop levers; chucks and face-plates can't spin off; electrical panel door cannot open until power is off.

SPACE SAVING—"Tray-Tops" keep tools off carriage wings and ways; cabinet leg provides storage space.



ROYAL & RADIAL DRILLS

- low-priced real machine tools
- light-duty, sensitive drills for metal or wood
- 3' arm, 7½" column, medium-duty radial



Safe, easy belt-shifting is accomplished by hand on the Royal; just tilt the hinged motor bracket. Royal heads feature four sealed-for-life ball bearings, adjustable clock-type spring spindle return, positive easy-to-set depth gage.

ROYAL BENCH AND FLOOR DRILLS—16" and 18" models, built for sustained accuracy in long, hard usage. "Full floating" spindle drive. Spindle pulley mounted on two ball bearings to prevent belt pull being transmitted to the spindle. Two additional ball bearings carry radial and thrust loads. All four bearings have sealed-in lubrication; their ample size provides a wide safety margin for load and speed. Precision-ground alloy steel spindle has six integral splines. Vee type pulleys dynamically balanced for smooth performance. Exclusive hinged motor bracket provides fast, safe belt shifting without wrenches.

RADIAL DRILL—A fine production tool for radial drilling up to 1¼"—handles 90% of all drilling jobs. Low cost is combined with such high-priced features as: all-geared head with 9 spindle speeds; automatic pressure lubrication; all shafts mounted on antifriction bearings; flame-hardened and ground tubular steel column mounted on tapered roller bearings; trouble-proof column and arm clamps; hardened and ground head rail on arm; heavy ribbed base with built-in coolant tank.

OLIVER MACHINERY COMPANY

Established 1890

445 Sixth Street, N.W., Grand Rapids 4, Michigan

Oliver Woodworking Machinery

Engineered to give vocational shops the most for their dollar

GIVE your students a solid foundation for progress when they enter industry. Train them right with Oliver machines. Instructors in leading vocational shops know Oliver equipment gives the finest service year after year, for it is engineered to pay its way on factory floors. Such equipment is essential for practical, thorough training. On this page are shown a few machines of a complete line for vocational shops.

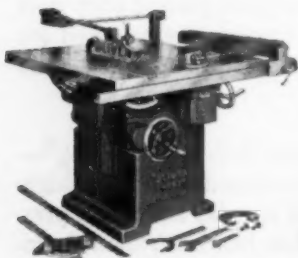


The finest
Band Saw of its
capacity!

No. 192-D
BAND SAW

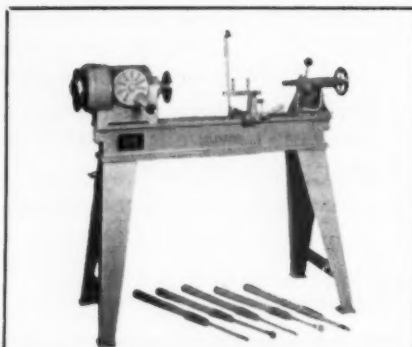
Oliver Band Saws are recognized in vocational shops and industry as the finest made, bar none. This sturdy motor-on-arbor 18-inch Band Saw cuts wood, metal, compositions and plastics smoothly—no rough edges or burrs. Has heavy ribbed table 24" x 20". Takes 9" under the guide. Rips up to 11" wide. Mitters and cross-cuts up to 6½". The table tilts up to 45° to right. Students find it easy to set up and operate. In fact, this 18-inch Band Saw has many of the refinements and adjustments found on our larger Band Saws.

Oliver Band Saws are also made in 30", 36" and 38" sizes. They are precision-built to give years of dependable service.



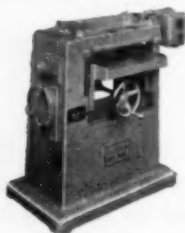
No. 270-D
SAW BENCH

Has gauges and graduated table to cut a perfect miter, cut off to length, rip to width and dado accurately—no delay to check measurements. Saw arbor tilts up to 45°. Rips to 29" wide with plain fence. Cross cuts up to 16" wide by 3" thick. Has finest saw guard with anti-kick back dogs. Also made in smaller and larger capacities.



METAL SPINNING LATHE

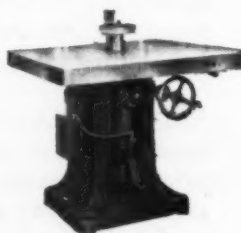
Lathe shown above has 12" diameter swing. Extra heavy bed and large bearings enable it to withstand tremendous pressures. Motor-driven headstock has dial control. Spindle speeds adjustable from 800 to 2750 r.p.m. Ball bearing tail center. Oliver Metal Spinning Lathes also made in sizes with 16", 20", 24" and 30" swing.



No. 399
SURFACER

Turns out smoothest work. Takes stock 18" wide, 6" thick, as short as 8½" when fed singly. A heavy one-piece base assures perfect

and permanent alignment of parts. Finest roller and ball bearings are used for quiet, long service. Safe and easy to operate. Oliver Surfacers also made in 24", 30", 36" sizes.

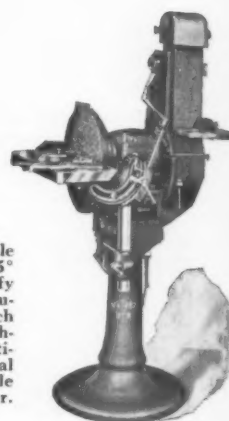


No. 287-T
SHAPER

This rugged single spindle Shaper rabbets, grooves, flutes, routs and shapes smoothly cutting with or against the grain. Finished dovetailed ways support head unit. Three types of drive: Motor-on-arbor, V-belt, and close-coupled motor drive. Oliver also makes a sturdy Shaper of smaller capacity.

No. 182-DB
Disk-Belt
SANDER

Has 15" disk. Table tilts 45° down, 25° up. Gauges simplify angular and circular work. A 6-inch belt sanding attachment runs in vertical or horizontal position. Available without belt sander.



No. 159-A
SPEED LATHE

Very easy to operate. It swings 12" diameter, 26" between centers. Has 48-inch bed. Unit type motor and V-belt driven headstock for spindle

speeds of 800 to 2750 r.p.m. Switch has overload protection. The No. 51-A Lathe is offered with four-speed motor headstock. Oliver makes a complete line of woodturning lathes.

No. 144
JOINTER

This 8-inch Jointer has direct motor drive and sturdy one-piece bed. Safety cylinder has three knives. Oversize ball bearings for years of smooth operation. Oliver Jointers come in capacities from 6" to 30".



OLIVER EQUIPMENT FOR VOCATIONAL SHOPS

Circular Saw Benches	Wood Turning Lathes
Straightline Cut-off Saws	Jointers
Jig Saws	Surfacers
Band Saws	Sanders
Horizontal Borers	Tenoners
Vertical Borers	Oilstone Tool Grinders
Mortisers	Shapers
Wood Trimmers	Knives and Saws
	Metal Spinning Lathes

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STACOR EQUIPMENT COMPANY

Manufacturers of Lifetime Quality School, Drafting & Library Equipment

305 Emmet Street, Newark 5, New Jersey

FLEX-MASTER DRAWING & DRAFTING EQUIPMENT

A Complete Line Specifically Designed for School Use

In use in thousands of schools across the country, Flex-Master units are well designed, well made and well accepted. They offer the utmost in efficiency and economy, many unique features, and a wide variety of models to fit the needs of the particular classroom.

4-POST DRAWING TABLES

2 Heights. 2 Base Sizes. 4 Top Sizes
Combination Drawing & Reference Tops

Adaptable and sturdy with all-steel bases and roomy drawers, these tables come 30" and 37" high. Tops adjust easily to any desired working angle. Both regular and split-top boards are available in softwood, hardwood, steel or plastic . . . in a wide range of sizes. **Woodline**—The above also in all wood.



BLUEPRINT CABINETS —FLAT FILES

3, 4, & 5 Drawer Sections • 22 Sizes



Precision made of heavy gauge steel for lifetime use, files come in 3 styles . . . can be stacked to any height. Drawers have attractive hardware . . . roll smoothly on case-hardened ball bearings. Safety-Stop prevents them from pulling out accidentally. Dividers permit storage of small items as well as drawings, tracings, artwork and paper. Sizes range from 29-7/8 to 53-3/4 wide, 22-3/4 to 41-1/2 deep. Drawers vary from 2 to 3-3/4 in depth.

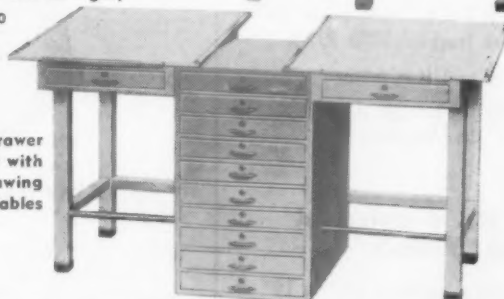


MULTI-STUDENT

Private drawer for each student stores individual drawing board **HORIZONTALLY** with room for T-square, instruments, etc.

Individually serving several students in a minimum amount of space, these multi-purpose units interlock with each other. Cabinet units of 5, 8, and 10 drawers, drawing tables which attach on the right or left, permit arrangements to suit any number of students . . . any classroom. The 20-13/16x27x2-13/16 drawers have individual locks, masterkeyed . . . hold boards up to 20x26. Open compartment on 5-drawer Units is 28-15/16x21-1/8x10. Table board, 31x33x3/4, is mounted on completely enclosed top at fixed angle of 7° with pencil ledge. Each unit measures 23-1/8" from left to right, 29" from front to back, 37" high.

10-Drawer Cabinet with Dual Drawing Tables



in • ALL STEEL
• STEEL & WOOD
• ALL WOOD

for • Art Classes
• Engineering
• Shop
• Mechanical Drawing
• Vocational and Industrial Arts

INDIVIDUALIZED DRAWING UNITS



8-Drawer Cabinet



5-Drawer Cabinet



8-Drawer Cabinet with Single Drawing Table

4-POST DRAFTING TABLE

Plan and Tool Drawers

Strongly reinforced, this steel table stands 37" high with comfortable foot rest . . . has full size plan drawer and tool drawer with lock and two keys. Positive tilt at any desired working angle is assured by easy-operating raising devices with molded knobs. Choice of board sizes from 37-1/2x60 to 43-1/2x84. Also available with a wood base, steel reinforced and beautifully finished with auxiliary cabinet to match.



Auxiliary Cabinet fits under tool drawer, provides extra space for needed equipment—supply drawer and file drawer.

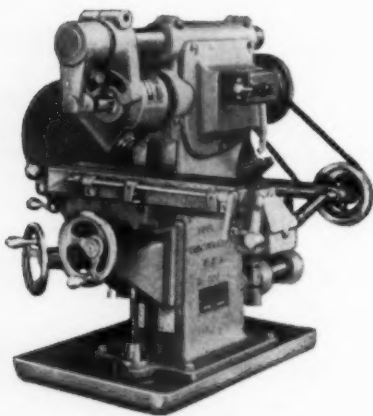
Write, wire or phone for prices and the complete Flex-Master Catalog TODAY.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

U. S. BURKE MACHINE TOOL DIV.

35 Brotherton Road, Cincinnati 27, Ohio

Designed to Teach Basic Machining Skills with Minimum Investment



**BURKE
Bench Millers**

No. 1 & No. 3 Hand Feed Models

TABLE: Working surface: $3\frac{1}{2}$ " x 12" or $3\frac{3}{4}$ " x 16"

RANGE: Longitudinal feed: 8" or 12"; cross feed: $3\frac{3}{8}$ "; vertical feed: $4\frac{1}{2}$ " or $7\frac{1}{2}$ "

SPINDLE: #9 B & S taper; speeds: selective from 66-5000 RPMs

DRIVE: $\frac{1}{2}$, $\frac{3}{4}$ or 1 H.P. motor

NET WEIGHT: #1—300 lbs., #3—350 lbs. (approx.)

No. 4 & No. 4 Universal Power Feed Models

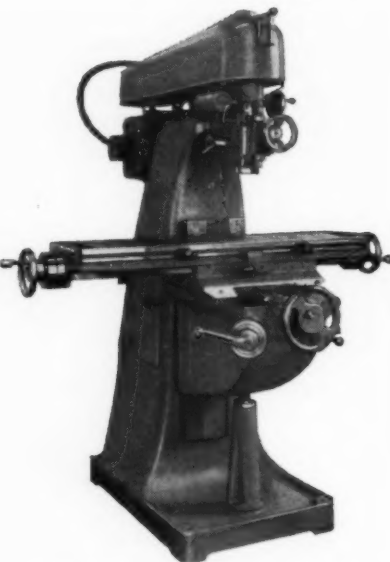
TABLE: Working surface: $3\frac{3}{4}$ " x 16" or $3\frac{3}{4}$ " x 20"

RANGE: Longitudinal feed: to 12"; cross feed: $3\frac{3}{8}$ "; vertical feed: 7" or 8"

SPINDLE: #9 B & S taper; speeds: selective from 66-5000 RPMs

DRIVE: $\frac{1}{2}$, $\frac{3}{4}$ or 1 H.P. motor

NET WEIGHT: 450 or 500 lbs. (approx.)



NEW U.S. Vertical

HEAD: Quill travel: $5\frac{1}{2}$ "; down feed: infinitely variable, .002"-.008" per rev.

TABLE: Working surface: 10" x 36" or 42"; table feed: infinitely variable, 0-12" per min.

RANGE: Longitudinal feed: 24" or 30"; cross feed: 11"; vertical feed: $16\frac{1}{2}$ "

SPINDLE: #9 B & S, #3 Morse, #30 National or R-8; speeds: 65-2850 RPMs

DRIVE: 1 H. P. standard or gear motor

NET WEIGHT: 2000 lbs. (approx.)



**No. 1 U.S.
Hand Mill**

HEAD: Vertical feed (rise and fall): $4\frac{1}{2}$ "

TABLE: Working surface: $6\frac{1}{2}$ " x 23"

RANGE: Longitudinal feed: 16"; cross feed: 5"; vertical feed: $15\frac{3}{4}$ "

SPINDLE: #9 or #10 B & S taper; speeds: selective from 150-5000 RPMs

DRIVE: 1, $1\frac{1}{2}$, or 2 H.P. motor

NET WEIGHT: 1000 lbs. (approx.)

U.S. BURKE Milling Machines offer ease of instruction on all standard metal milling operations, help teach fundamental principles through duplication of actual shop operations in miniature. Write for full information and quotation.

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Dept. 248, Crystal Lake, Ill.

(Suburb of Chicago)

DUDLEY is the finest lock you can specify for your school

Combination Padlocks and Built-in Locks



DUDLEY RD-2 Rotating Dial Combination Padlock

Ruggedly built to stand up under years of student abuse. Stainless steel case . . . revolving dial with 40 divisions marked in white on black enamel . . . reliable, rust-resistant 3-tumbler mechanism . . . self-locking feature prevents disclosing last combination number—tumblers spin, dial whirls when hasp is pushed home.

DUDLEY RP-5 Combination Padlock with Revolving Knob Pointer

Solid brass case . . . 40-division dial marked in white on black enamel . . . self-locking—when hasp is pushed home tumblers turn, pointer spins away from last combination number.



DUDLEY L-4 Built-in Revolving Dial Combination Lock

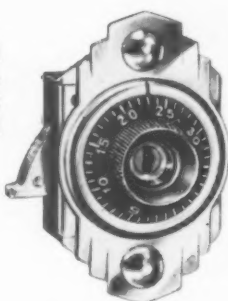
Quick, easy combination change is one of the features of this dependable lock. Fits any standard size steel locker door.

The Standard of Controlled Locker Protection since 1921

Dudley Master-Keyed Locks for extra security

DUDLEY S-540

Built-in, Master-Keyed Combination Lock with Dudley's exclusive reset feature . . . 15-second combination change.



Only Dudley offers the protection of this unique Master Key

No easy-to-duplicate serrated edge on the Dudley Master Key. The irregular grooved channel in the shaft can't be cut on conventional key-making machines. So far as we know, no locksmith has ever been able to work from a lock to duplicate a Dudley Master Key. This extra security is yours at no extra cost when you install Dudley Locks.

DUDLEY P-570 The finest Master-Keyed Combination Padlock

Here is the ultimate in security and control. P-570 is beautifully engineered and finished, has exclusive, pick-resistant Bell-type pin-tumbler cylinder. Case is heavy cast aluminum, satin finished. Shackle is extra heavy. Revolving dial has 40 divisions. Self-locking.



EVERY DUDLEY LOCK CARRIES A TWO YEAR WARRANTY

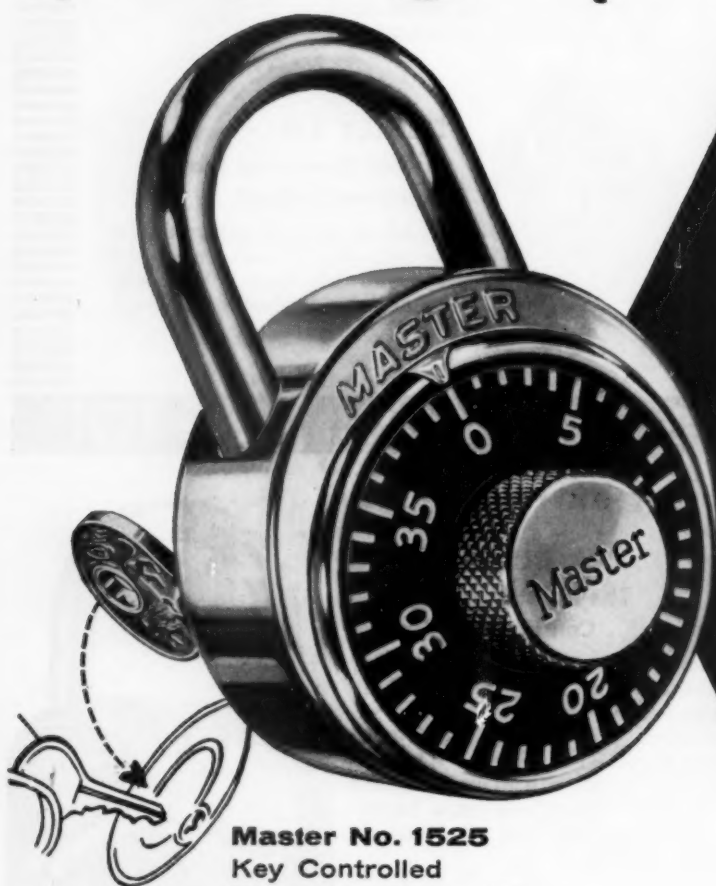
MASTER LOCK COMPANY

Milwaukee 45, Wisc.

Master

COMBINATION PADLOCKS

give you **5** important advantages!



Master No. 1525
Key Controlled
Two Year Guarantee



Master No. 1500
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as No. 1525... but without
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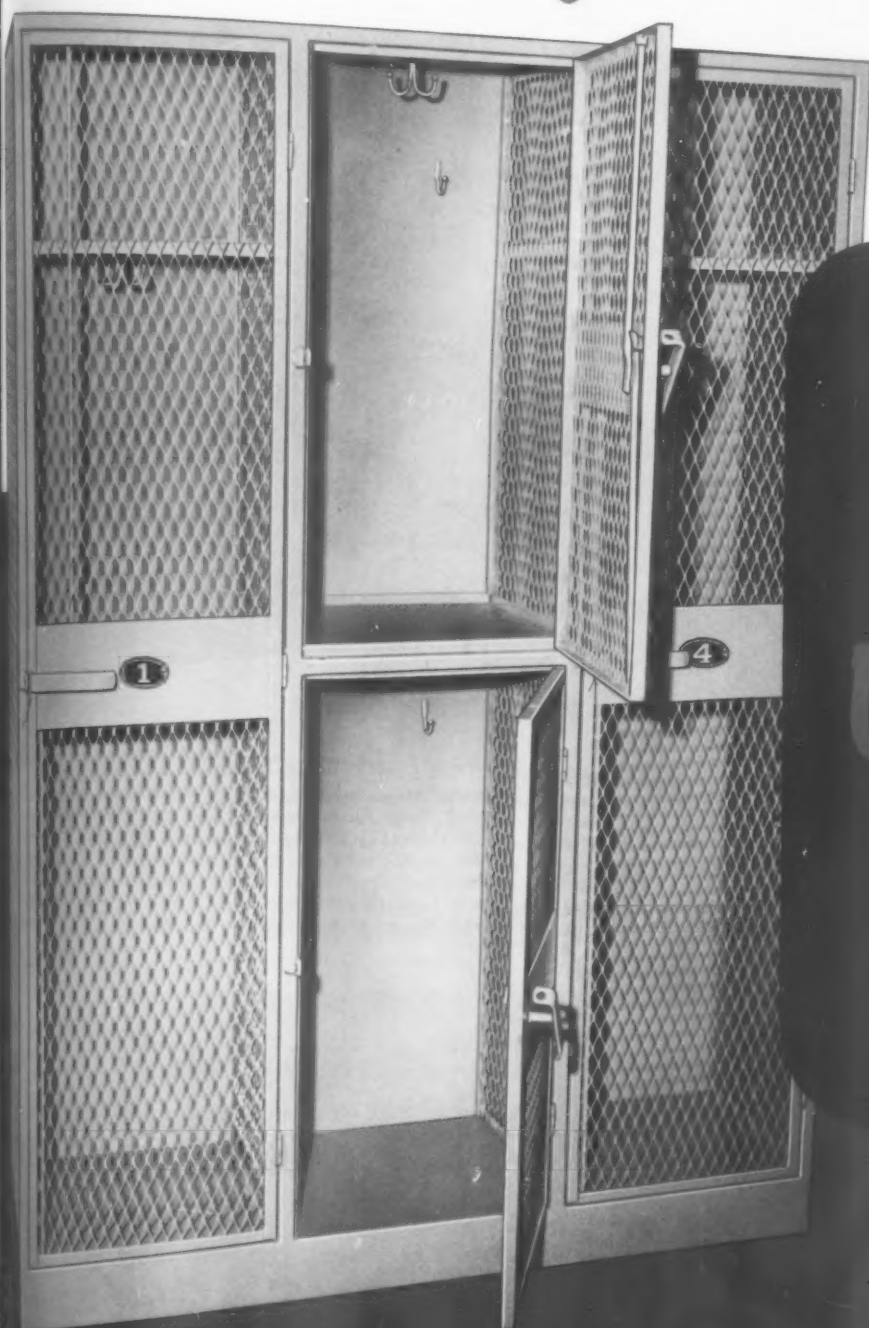
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For Team Room or Locker Room...



THE NEW ALL AMERICAN "GYM LOCKER"

Provides three times as much equipment storage space as a gym basket ... insures better drying ... eliminates handling and replacement problems. 18 compartments per unit — each 18" w x 16" d x 12" h with slide-latch doors and provisions for locks. Legs (optional) for single row or back-to-back installation. Also available with frame base on casters to hold two 18-compartment units mounted back-to-back. Ventilated 3 sides. Baked enamel solid or two-tone finish. Furnished with number plates. Overall width of 18 compartment unit 54"; Overall height (with legs) 78"; Overall height (without legs) 73". Approx. shp. wt. 320 lbs. per 18 compartment unit.



THE ALL AMERICAN "SENIOR"

Deluxe three locker unit ventilated 3 sides (door and sides). Each compartment 18" w x 16" d x 72" h. Complete with shelf (12" from top) and hooks. Legs are optional. Also available in 1 and 2 locker units for fill-in only. Overall width of 3 compartment unit 54"; Overall height (with legs) 78"; Overall height (without legs) 73". Approx. shp. wt. (3 locker unit) — 265 lbs.

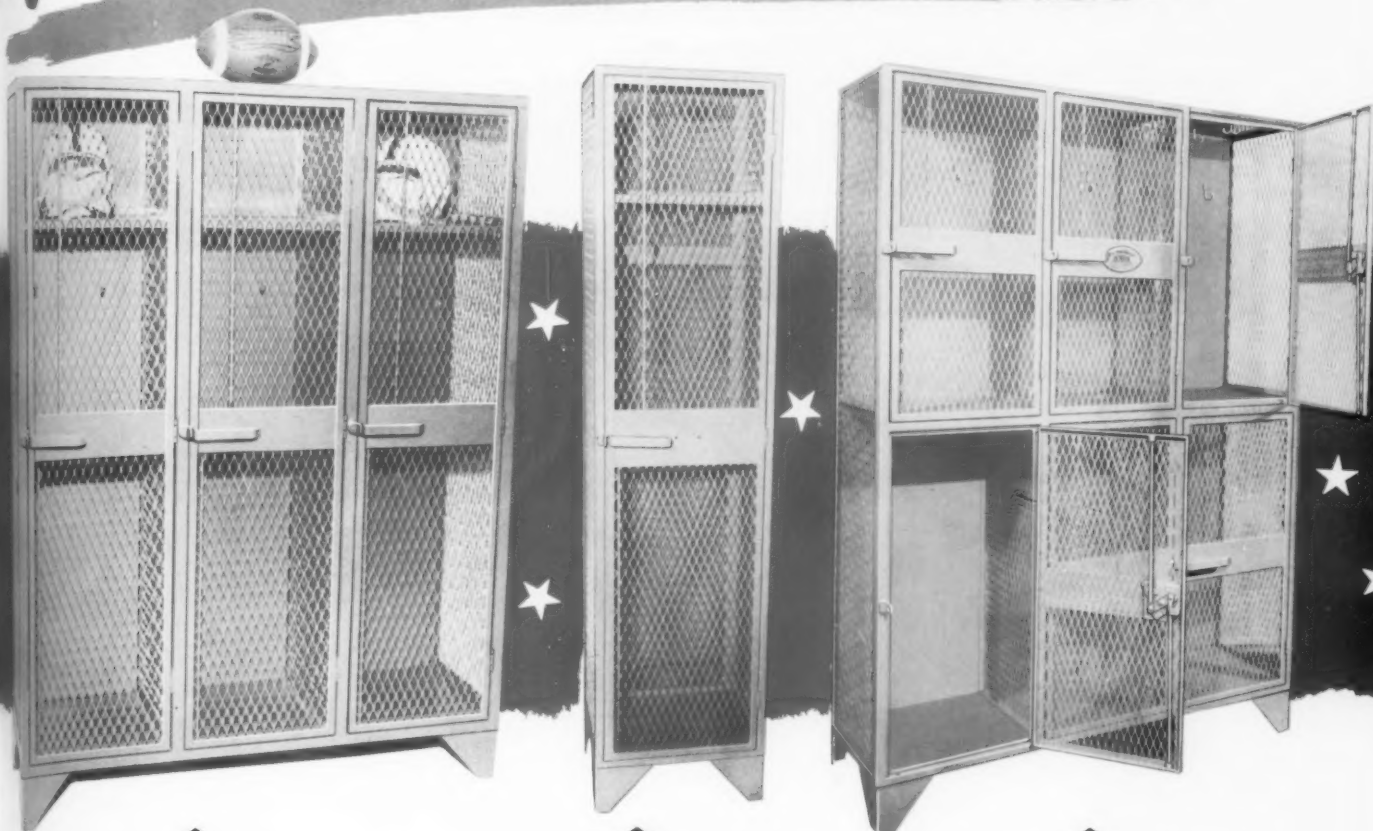
HERE'S WHAT COMPLETELY VENTILATED LOCKERS CAN MEAN TO YOU!

- Eliminates the need for a drying room ... your locker becomes a drying room — allows equipment and uniforms to dry out in storage.
- Does away with unnecessary clothes handling.
- Cuts down on team equipment maintenance costs ... eliminates loss and misplacement of expensive equipment.

Check these QUALITY FEATURES of ALL AMERICAN ATHLETIC LOCKERS

- **FULLY VENTILATED** — Steel mesh side panels and doors provide maximum ventilation ... speeds up drying, eliminates offensive locker room odors.
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- **ATTRACTIVE FINISH** — Furnished with beautiful, durable, baked enamel according to customer's color sample.

Your Best Locker Buy!



THE ALL AMERICAN "JUNIOR"

Economy model, slightly smaller. Ventilated 3 sides (door and sides). Each compartment 16" w x 16" d x 60" h. Legs optional. With shelf and hooks. Also available in 1 and 2 locker units for fill-in only. Overall width of 3 compartment unit 48"; Overall height (with legs) 66"; Overall height (without legs) 61". Approx. shp. wt. (3 locker unit)—230 lbs.

THE ALL AMERICAN "ALL-VENT"

Single locker units, ventilated all four sides. 18 3/4" w x 16" d x 72" h. Legs optional. With shelf and hooks. Overall height (with legs) 78"; Overall height (without legs) 73". Approx. shp. wt. — 84 lbs. each.

THE ALL AMERICAN "DOUBLE TIER"

Six locker unit ventilated three sides. Each compartment 18" w x 16" d x 36" h. Legs optional. Furnished with hooks. 2 and 4 locker units also available for fill-in only. Overall width of 6 compartment unit 54"; Overall height (with legs) 78"; Overall height (without legs) 73". Approx. shp. wt. (6 locker unit) — 300 lbs.

ARCHITECTS: Complete print specifications on all locker models available on request.

• **THEFT PROOF 3 POINT LATCH DEVICE** — All-American lockers have a new heavy three-point locking mechanism with provisions for padlocks which eliminates the theft problem and increases door sturdiness.

• **ROOMIER AND CLEANER** — All-American lockers provide generous storage and hanging space for clothing and equipment. Each locker comes complete with shelf, one double ceiling hook and two back wall hooks. Hook arrangement can be varied on request.

• **COMPLETELY ADAPTABLE** — Besides the standard sizes and combinations shown above, All-American lockers can be adapted to individual needs. Note the Custom locker on the cover... 2 full units and 2 half units... your specific needs for sizes and combinations can be easily furnished. Special lockers manufactured to custom specifications on request.

• **OPTIONAL EXTRAS** — Enclosed bases and sloped tops can be furnished at slight additional cost. Locker number plates and padlocks are extra except where otherwise noted.

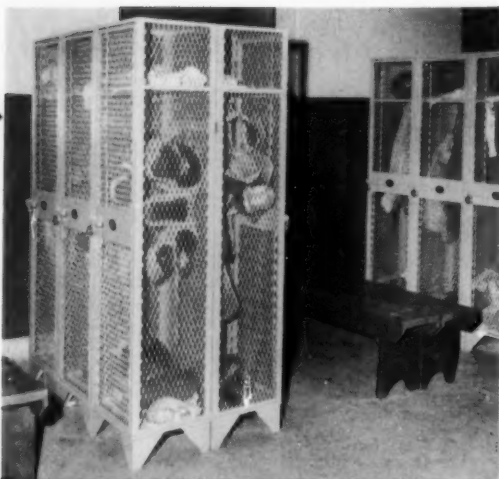
• **SHIPPED SET UP... READY FOR USE.**



LOCKER ROOM BENCHES

We can now furnish you with locker-room benches... sturdy, long-lasting, attractive benches with 1 1/4" thick clear hardwood tops. 18" h and 9 1/2" w. Pedestals are metal with baked on enamel finish. 8'10" and longer benches have 3 pedestals... others have two. 4 sizes available... 5'10", 7'10", 8'10", 9'10".

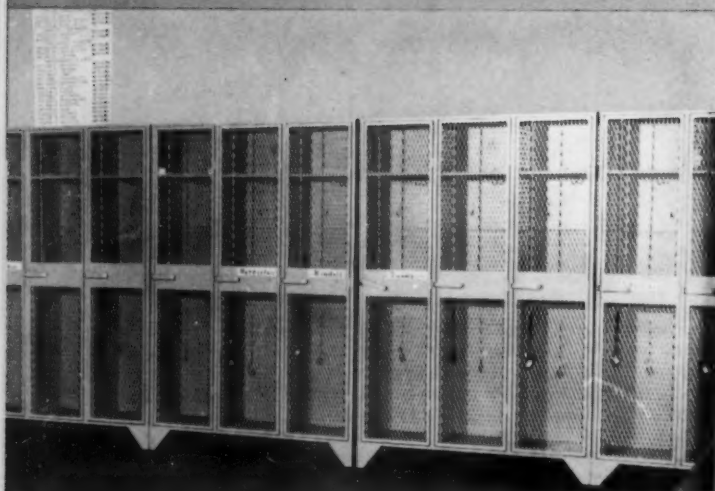
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Photo above shows All-American All-Vent Lockers in the Football Locker Room.



THE NEW METROPOLITAN STADIUM — Bloomington, Minn.
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UNIVERSITY OF MINNESOTA — Minneapolis, Minn.
Photo above shows Senior All-American Lockers in Williams Arena, Basketball Locker Room.



BEMIDJI HIGH SCHOOL — Bemidji, Minn.
Photo above shows Senior All-American Lockers in Football Locker Room.

OTHER TYPICAL ALL-AMERICAN LOCKER INSTALLATIONS

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If you are contemplating new construction or remodeling . . . our sales engineering department can make recommendations on the best All-American Locker installation for you. Send us your blueprints, or sketches of locker room layout, and number of lockers required for free quotation.

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No. 68-264

no. 68-264

A high-quality, dependable combination shackle lock with Stainless Steel outer case. Dial is black enamel with white gradations. Lock has 5/16" dia. heavy-duty Chromium plated shackle. Requires three-number dialing to open. Thousands of different dialing combinations. Master-keyed so it can be opened by authorized custodian.

no. 68-265

This outstanding shackle lock has many of the same excellent features as found in the No. 68-264. Shackle is 5/16" diameter. Lock must be dialed to three numbers to open. Dial is locked against rotation when shackle is open. This lock is not masterkeyed. Provided in plain zinc or bright Chromium finish. A dependable performer.

no. 68-259

Combination masterkeyed Laboratory Drawer or Door Lock. Combination can quickly be changed without removing lock from mortise. Lock is of solid Brass construction and is not affected by ordinary laboratory fumes and acids. This quality Rockford lock is reversible for use on right or left hand doors.



No. 68-265

no. 68-267

The working parts of this built-in lock have been completely redesigned to provide added strength and long trouble-free protection. For use on lockers with spring latch bar. Closing door drops latch and automatically locks lock. Escutcheon is satin Chromium plated. Master key is included with each initial order of 12 or more locks.

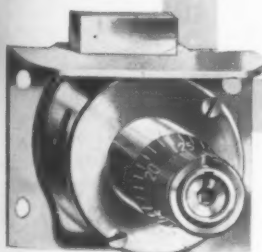
no. 68-269

This lock is designed for use on small lockers. Has beveled spring bolt lock. Bolt springs into locked position when door is closed. Strike plate is not necessary. Bolt drops into pierced door frame. 3-number dialing. Black enameled dial. 4 dialing combinations. Masterkeyed. Turning knob retracts bolt.

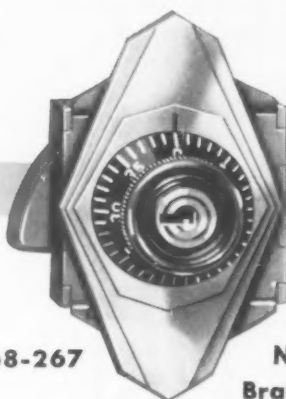
no. 68-271

This durable lock has the same outstanding characteristics as the No. 68-267, except it is not self-locking. Dead bolt is opened and locked manually by turning dial. May be applied to many lockers now in use. Masterkeyed. Ideal for either right or left hand applications. Provides long-term security.

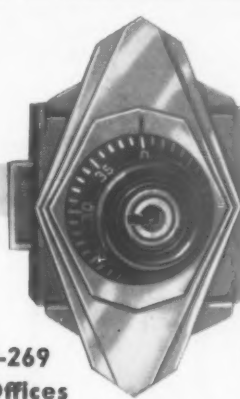
ask for illustrated folder showing complete line



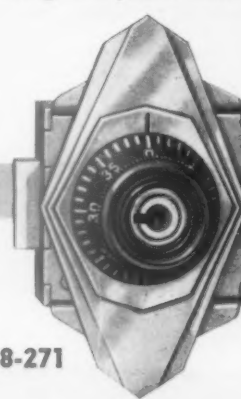
No. 68-259



No. 68-267



No. 68-269



No. 68-271

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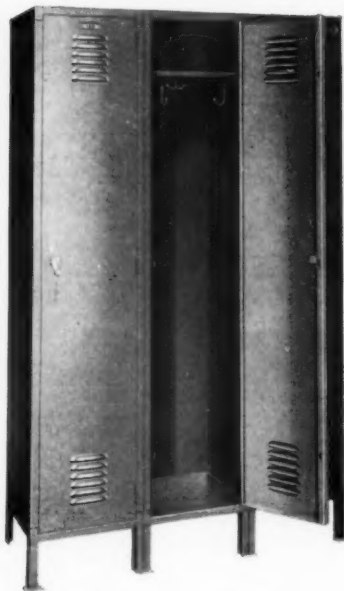
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LYON[®] STEEL EQUIPMENT



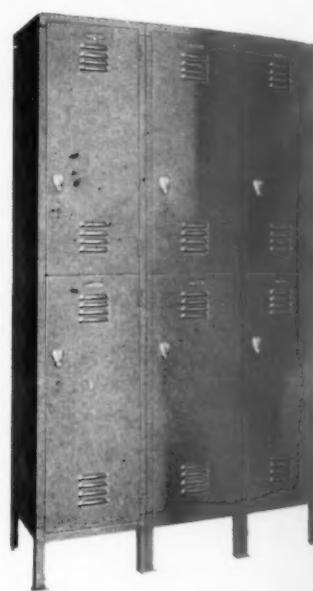
MULTIPLE TIER LOCKERS

Most popular of all multiple tier lockers. This locker is ideal for most small storage requirements. Available in 5 high in the following sizes: 12x12x12—12x15x12, and 15x15x12; 6 high—12x12x12 and 12x15x12; 4 high—15x15x15 (per locker door opening). Gray, green or taupe finish.



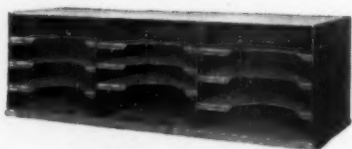
SINGLE TIER LOCKERS

Most practical and widely used of all lockers. Finger-tip handles. Full length clothing storage. Shelf at top for hats, lunches, etc. Available in fourteen sizes from 9" x 12" x 60" to 18" x 21" x 72" (per locker door opening). Gray, green or taupe finish.

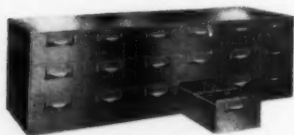


DOUBLE TIER LOCKERS

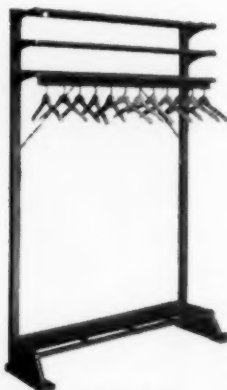
Economy in cost and space. Excellent for short period occupancy or where long coats are not worn. Available in sizes from 12" x 12" x 30" to 15" x 15" x 36" (per locker door opening). Gray, green or taupe finish.



SORTING RACKS



DRAWER CASE UNITS



COAT RACKS



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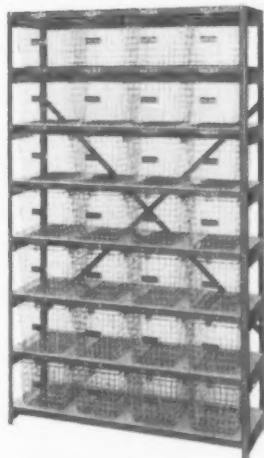
FOLDING CHAIRS

LYON METAL PRODUCTS, INCORPORATED

LYON[®] STEEL EQUIPMENT



DRAWING TABLES



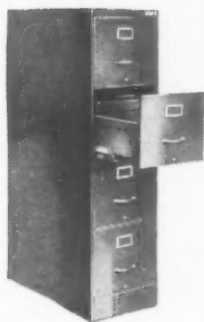
BASKET RACKS



WOODWORKING BENCHES



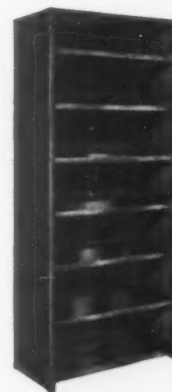
STORAGE CABINETS



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WORK BENCHES



STEEL TOP WITH SHELF



MODULAR TYPE



CABINET TYPE

A PARTIAL LIST OF LYON PRODUCTS

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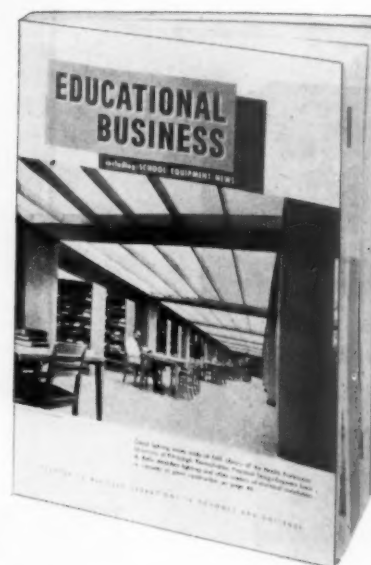
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G PHYSICAL EDUCATION—HEALTH

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Safway Steel Products, Inc.	G-1/Sa
Winkler Mfg. Co., Inc.	G-1/Wi
American Bridge, American Bridge Division, United States Steel Corporation	G 701
Arrow Bleacher Company, Division of Universal Manufacturing Corp.	G 702
Hohmann & Barnard of Alabama, Inc.	G 703
Hussey Mfg. Co., Inc.	G 704
Fred Medart Products, Inc.	G 705-707
Pittsburgh-Des Moines Steel Company	G 708
Playtime Equipment Corp.	G 709
Scott Port-A-Fold, Inc.	G 710
Snyder Tank Corporation, Bleacher Division	G 711
Standard Steel & Supply Company	G 712
Universal Bleacher Company	G 716
Wayne Iron Works	G 718-715

2. Athletic & Swimming Pool Equipment

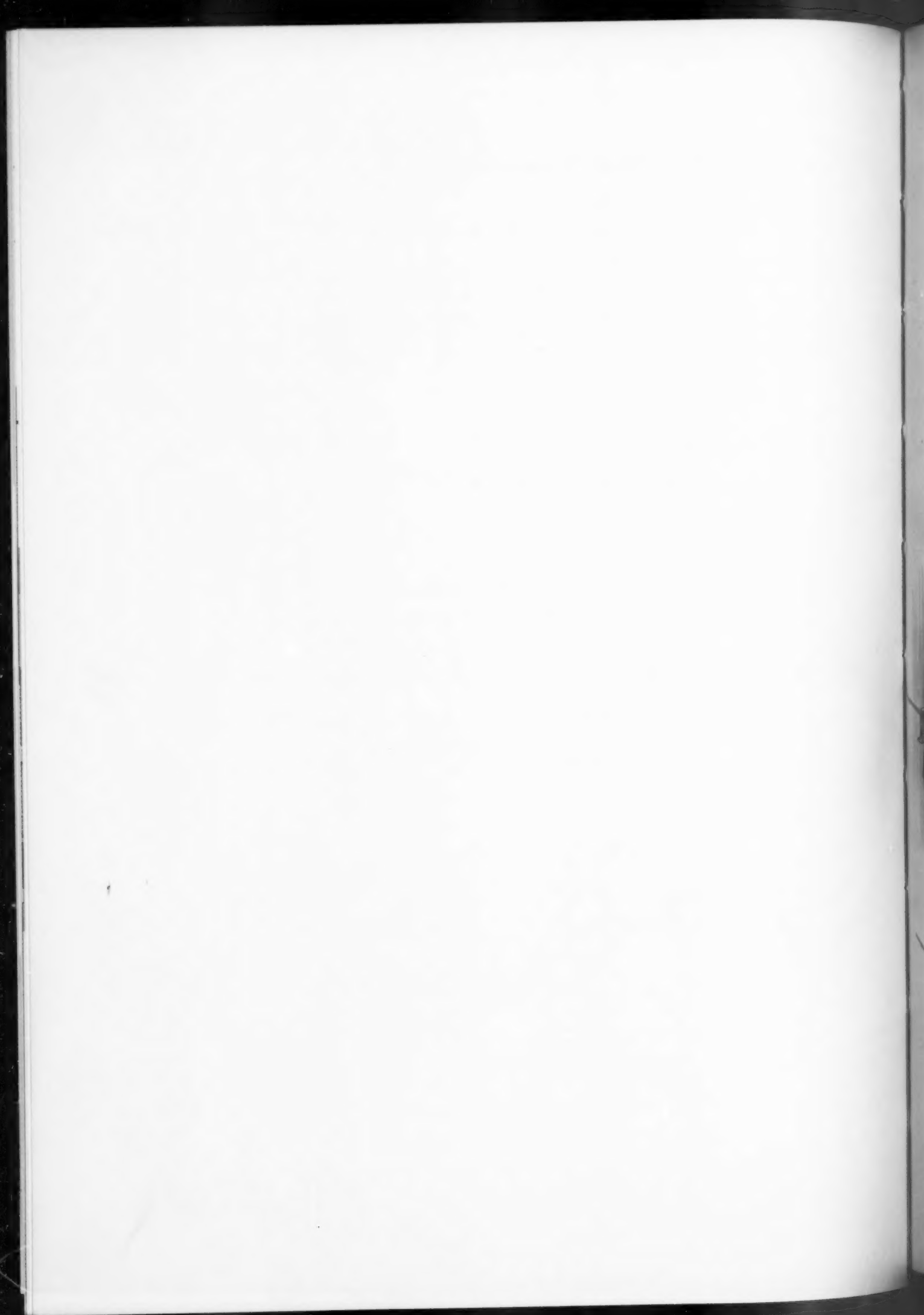
Nissen Trampoline Co.	G-2/Ni
All-American Scoreboard Corporation	G 717
The M. D. Brown Company	G 718, 719
Crouse-Hinds Company	G 724
M. Ducommun Company	G 723
Fair-Play Mfg. Co.	G 720, 721
General Electric Company, Outdoor Lighting Department	G 725
Naden Industries	G 722
Olin Mathieson Chemical Corporation, Industrial Chemicals Division	G 726
The American Trampoline Co.	877

(Opposite Inquiry Card page)

3. Playground Equipment

Game-Time, Inc., Sub. of Simpson Mfg. Co.	G 727
Sico Manufacturing Company, Inc.	G 728

*Note: Manufacturers represented with complete
catalogs are listed in bold face.*





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gymnasium...folding seating,
basketball backstops, partitions,
stages, wardrobes and closet
walls...offer a performance of
unsurpassed perfection.*

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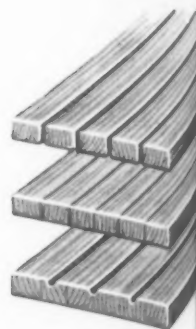


offers greater seating capacity . . . far more valuable space; helps your physical education facilities pay for themselves.

Gymnasium floor space for daily student activities—dramatic, social or athletic—is a precious quantity.

Today every possible inch must be made free for student use . . . but at the same time, the *dollar earning capacity* of your physical education plant is vitally important. Brunswick seating units offer increased seating facilities thus enabling schools to realize higher revenues from inter-school programs.

Custom-designed to fit any seating demand from 80 to 8000 capacity. When not in use, the Brunswick seating unit easily folds back against the wall, leaving the gymnasium free for regular school-day functions.



Three types of seatboards to choose from; rail-type for maximum ventilation; laminated solid with flush surface; and laminated solid with grooved surface.



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Brunswick Seating forms a solid, inclined front with no protruding edges or parts to cause injury to vital parts of the body in the event of a fall.

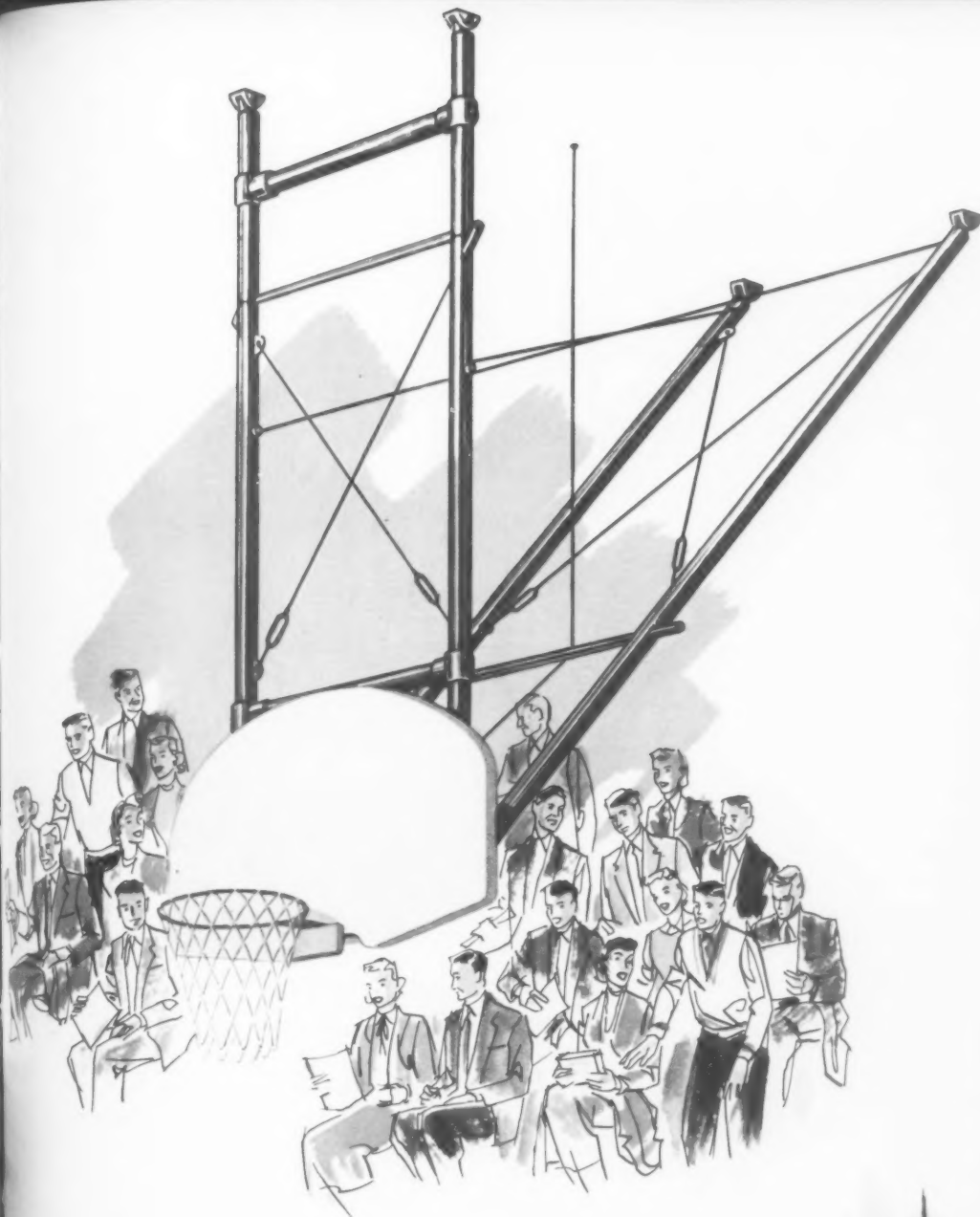


POSITIVE ROW LOCKING

Brunswick Seating exclusive feature—synchronized locking principle that automatically locks each row of seating in the open position as seating is pulled out from the wall.



POWER OPERATION

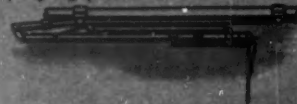


Brunswick FOLDING BASKETBALL BACKSTOPS

demonstrate Brunswick's leadership in the school and gymnasium equipment field for these units are the finest, the most modern concept in basketball equipment. Here's a completely new approach to folding basketball backstops that is ideal for use in front of stages, over balconies or in any gymnasium where an inconspicuous method of folding is desired. This remarkable innovation in basketball equipment is available in many styles or types to fit your specific requirements.

MAXIMUM RIGIDITY

Is assured by placing stabilizer cable between front drop pipes and the upper frame . . . takes out all the free movement when in playing position.



MINIMUM FOLDED SPACE

Unit folds when the winch is operated and folds straight up instead of back or forward which would require more space.



NO CABLES IN PLAYING AREA

All cables are located inside the folding structure thus eliminating unsightly pull ropes needed in the forward folding types.

BRUNSWICK SAFETY WINCH

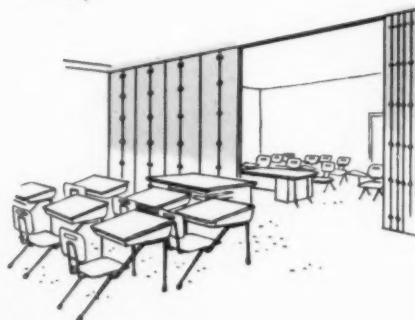
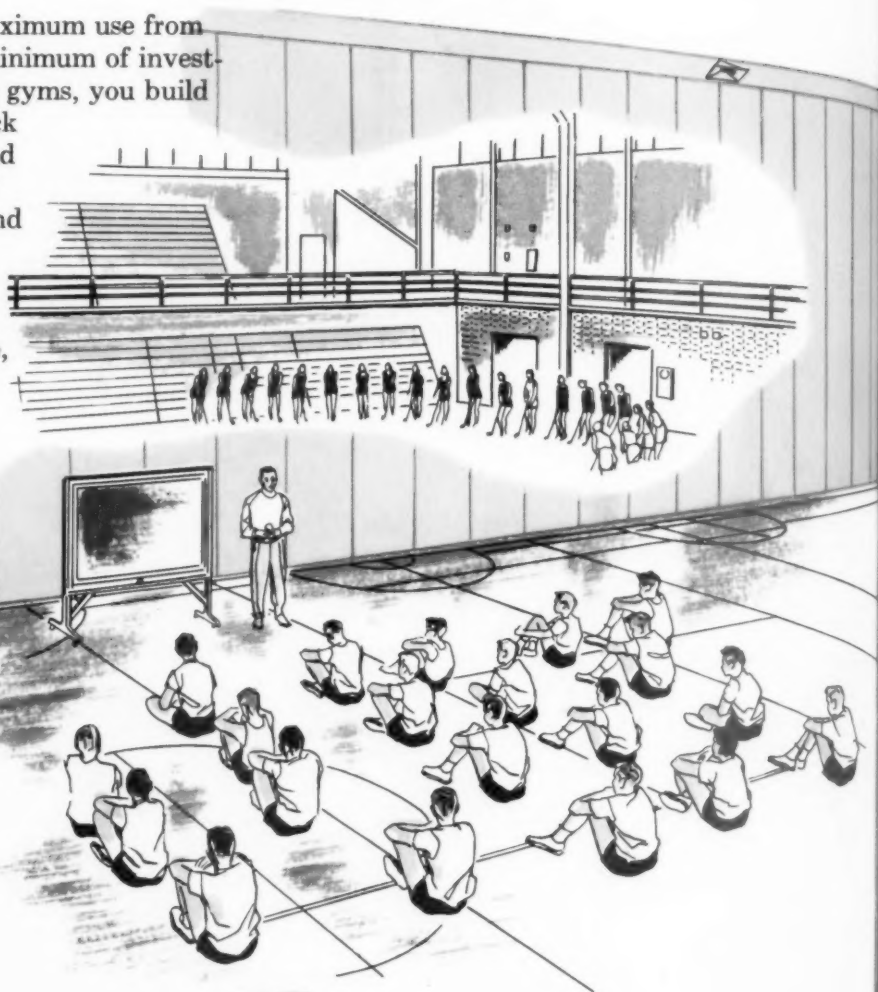
A new development in basketball hoisting equipment that has been designed for safety as well as appearance. Fully enclosed and self-locking at any position. Operated with removable extension handle, making it impossible for unauthorized persons to tamper with unit.



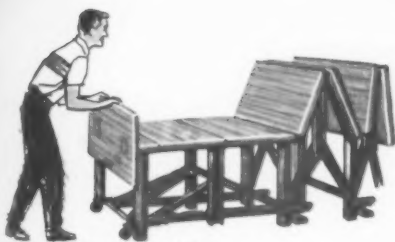
Brunswick FOLDING PARTITIONS

Enable you to receive maximum use from your gymnasium space at a minimum of investment. Instead of building separate gyms, you build only one, equipping it with Brunswick Folding Partitions. Close the partition and you have two separate gyms for boys' and girls' classes . . . open the partition and you have a large exhibition gym—three gyms from the space of one!

Brunswick Folding Partitions enable you to get more use from classroom space, too. They can be used in school cafeterias, library, multi-purpose rooms—wherever you want to divide activities. Whether you specify automatic electric, mechanical or manual operation, every Brunswick Folding Partition is custom-engineered to your specifications. Sound-retarding wall units available with either wood or aluminum doors.



Brunswick Folding Partitions of aluminum have a natural beauty, eliminate costly finishing, hold maintenance expense to a minimum. Sturdy, stable and soundproof.



EASILY SET-UP

Simply roll in a Brunswick Folding Stage unit, unfold it, secure it in position by operating the rubber-footed floor stops and it's ready for use.



SPACE-SAVING

Simply fold the Brunswick Folding Stage unit when through using and see how the unit folds into a space-saving, compact bundle for safety.



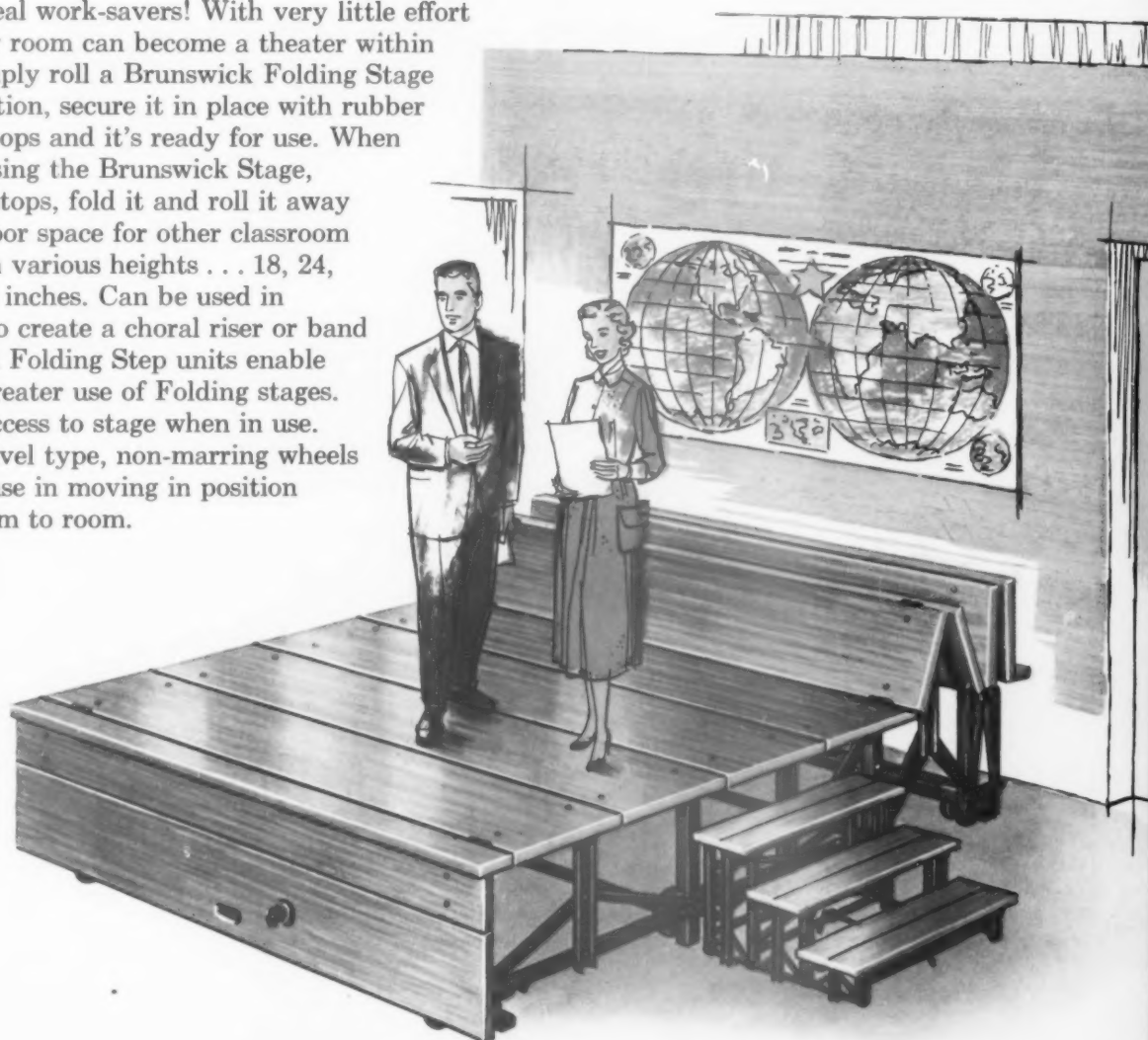
EASY TO MOVE

Swivel-mounted, non-marring wheels enable the Brunswick Folding Stage to be easily rolled into positions or moved from room to room, either in open or closed position.

Brunswick FOLDING STAGES... FOLDING STEPS

Are real work-savers! With very little effort any room can become a theater within minutes. You simply roll a Brunswick Folding Stage unit into position, secure it in place with rubber footed floor stops and it's ready for use. When you're finished using the Brunswick Stage, release the floor stops, fold it and roll it away ... freeing the floor space for other classroom uses. Available in various heights ... 18, 24, 30, 36, 42 and 48 inches. Can be used in staggered heights to create a choral riser or band stand. Brunswick Folding Step units enable you to make greater use of Folding stages.

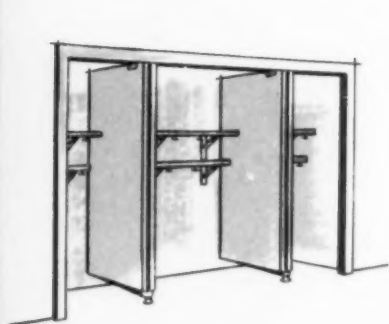
Offer easier access to stage when in use. Mounted on swivel type, non-marring wheels for ease in moving in position or from room to room.



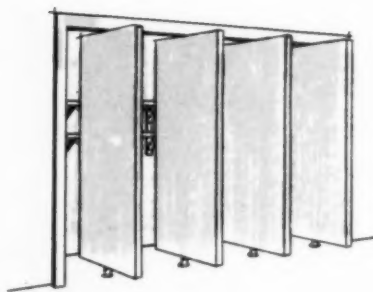
Brunswick FOLDING WARDROBES

Are designed to meet the trend toward functional classroom planning. Open the doors and you have generous wardrobe and storage space . . . close them and you have a chalkboard or bulletin board. Quiet effortless operation. Operating hardware has new, advanced design. Doors keep in perfect alignment because they're adjustable in all directions; may be latched open or closed to prevent unauthorized movement.

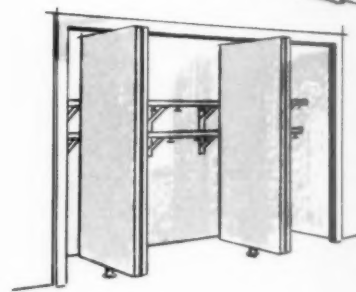
Brunswick Folding Wardrobes are available in three types of multiple operation . . . pivoting, receding and folding. Most complete line of classroom wardrobes available. Each unit designed and constructed to your requirements.



RECEDING TYPE



PIVOT TYPE



FOLDING TYPE

Brunswick

MENGEL

CLOSET WALLS...

CLOSET FRONTS...

SLIDING DOORS



Offer a practical, effective and economical solution to one of the major problems of student housing . . . ample storage facilities at a minimum of expenditure. Every Brunswick-Mengel Closet Wall installation will save approximately six depth inches of premium floor space. Floor space is extremely costly and valuable. Save hundreds of square feet with Brunswick-Mengel Closet Walls. Brunswick-Mengel Closet-Walls, Closet Fronts and Sliding Doors are designed to meet your specific requirements . . . and are available in custom-built or standard models.

CLOSET FRONT



SLIDING DOOR



CLOSET WALL ARRANGEMENTS



***Brunswick school and gymnasium
equipment products designed to keep
pace with modern educational demands***

Today our nation's schools are on the threshold of a bold, imaginative era in education where the requirements for facilities and equipment are most demanding. Flexibility . . . versatility . . . mobility . . . are the prime considerations of school administrators and educators when selecting equipment. Brunswick meets these requirements in every respect for their Folding Gymnasium Seating, Folding Basketball Backstops, Folding Partitions, Folding Stages and Steps, Folding Wardrobes, Closet Walls, Closet Fronts and Sliding Doors have been designed and engineered for the schools of tomorrow . . . today! Brunswick offers school and gymnasium equipment that operate and perform efficiently and economically. Brunswick continues to set the pace in school equipment field.



Brunswick

**THE BRUNSWICK-BALKE-COLLENDER COMPANY
HORN DIVISION
MARION, VIRGINIA**

S

AFWAY PECTATOR EATING

G-1/5a

telescoping gym seats



OPERATION... Few moving parts and minimum metal against metal friction permit operating Safway Telescoping Gym Seats with the least amount of effort. Extra large wheels, straight line tracking and rollers at each point of metal contact help achieve this ease of operation.

SAFETY... Eight structural steel columns under each row and extensive steel bracing give Safway gym seats rugged dependability. Three separate exclusive safety devices insure complete reliability under all operating conditions.

APPEARANCE... Specially compounded sealer and high gloss varnish on laminated seat and foot boards give Safway's vertical cabinet the finished appearance of fine wood paneling.

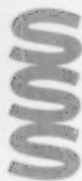
COMFORT... Extra wide foot boards and top seat boards, spacious toe and heel room and inclined seats are some of the Safway features promoting spectator comfort. Choice of seat spacing dimensions lets you plan for your specific gymnasium requirements.

MULTIPLE USE... One or any number of rows can be locked open as required, for partial seating capacity for such gym activities as social affairs, chalk talks and lectures. Hydraulically raised movable gym seats are also available.

FLOOR PROTECTION... Non-marking wheels prevent scuffs and scratches and the wheels roll in adjacent paths to prevent grooving the floor. At no time does bare metal touch the floor. Floating floors are free to expand or contract without hinderance.

SAFWAY STEEL PRODUCTS, INC.

63rd ST. AT WEST STATE • MILWAUKEE 13, WIS.

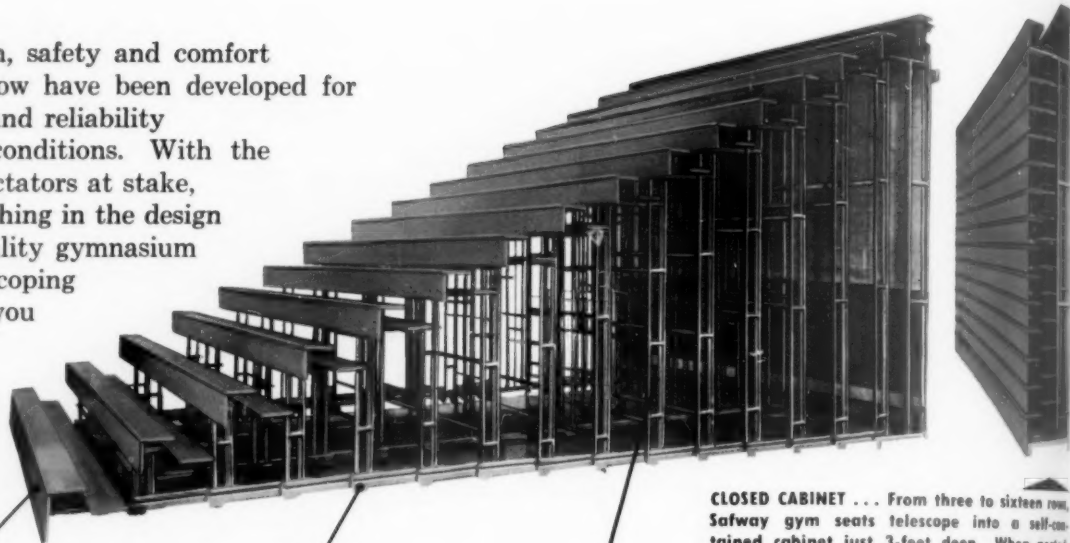


**SAFWAY
SPECTATOR
SEATING**

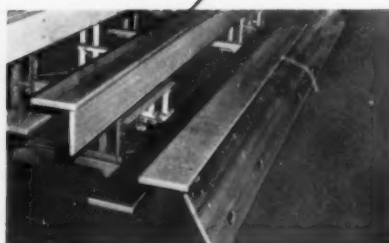
TELESCOPING GYM SEATS

construction details

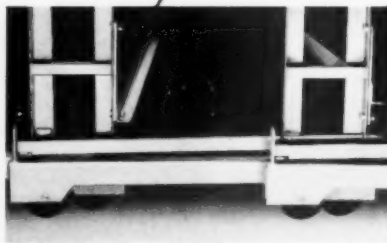
The exclusive strength, safety and comfort features described below have been developed for the utmost in safety and reliability under all operating conditions. With the well-being of your spectators at stake, Safway has spared nothing in the design and fabrication of quality gymnasium seating. Safway Telescoping Gym Seats will give you many years of safe, trouble-free service.



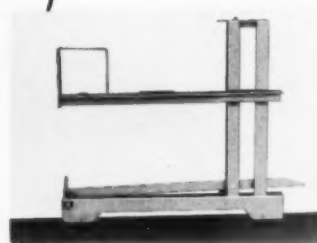
CLOSED CABINET . . . From three to sixteen rows, Safway gym seats telescope into a self-contained cabinet just 3-feet deep. When nested, the cabinet face is completely vertical, eliminating projections that might injure players running close to the wall.



FRONT RISER LOCK . . . Keyed-alike cylinder locks in the center of each front riser board control the action of the three safety devices. (The locking mechanism is illustrated below.) When the cylinder lock is opened, the front riser board may be raised, freeing the wheels for movement. Depressing the riser board locks the rows in any open position.

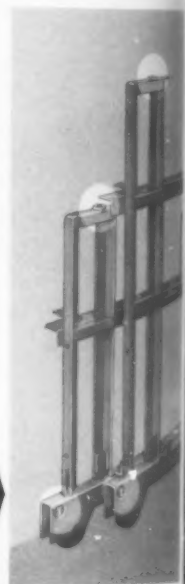


WHEELS AND CARRIAGES . . . Two large wheels under each column (eight wheels under each row) ride in the industry's longest wheel carriage for extra stability. By interlocking the carriages, the wheels are locked in place under the columns transferring spectator loads directly to the floor. Each rubber wheel is non-marking and equipped with self-lubricating bearings.

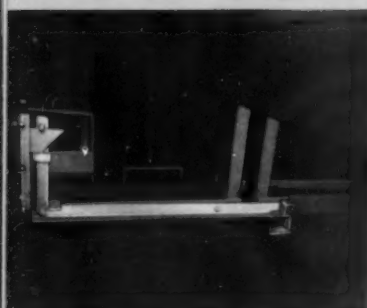


STEEL COLUMNS . . . Eight structural steel vertical angles under every standard length row are welded into pairs to the lower wheel carriages. The columns are stabilized by angle steel braces to insure strength and rigidity.

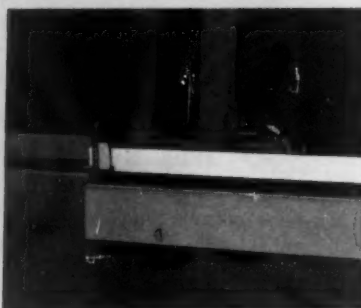
SMOOTH OPERATION . . . Rollers at each point of contact between adjacent columns minimize metal against metal friction. Rollers at the top of the columns ride in the channel under the seat boards. Rollers between wheel carriages permit the wheel assemblies to fit closely without binding.



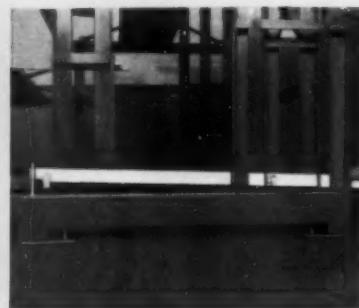
locking mechanism



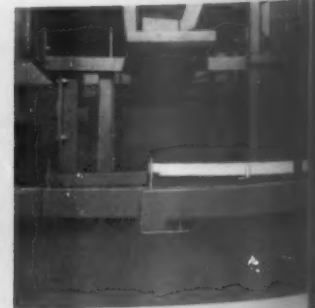
LOCKED OPEN . . . With the front riser depressed, as shown, the gym seats are fixed at any point of extension. When the cylinder lock is opened and the front riser raised, the brake pads rise permitting the section to roll.



GRAVITY LATCH SET . . . When each row is extended, the Gravity Latch on top of each wheel carriage drops behind the lock bar on the carriage ahead, preventing any movement between rows. The Gravity Latch above has locked open two adjacent wheel carriages.



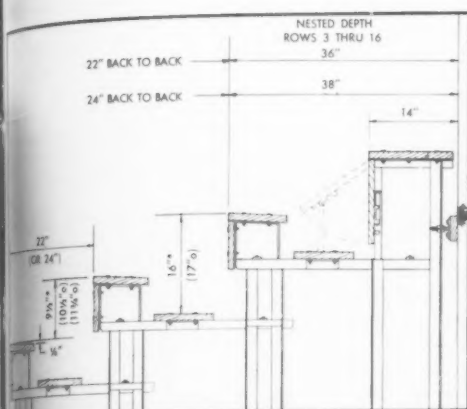
LATCH RELEASED . . . With the front riser raised, rearward movement pushes the wedge shaped end of the Gravity Latch against the unlocking bar attached to the back frame. This action raises the notched end of the latch, freeing the row ahead, as shown.



ROW NESTING . . . Continued rearward movement brings the next Gravity Latch against the unlocking bar which repeats the unlocking operation for the next extended row. When opening the gym seats, the action is reversed with each Gravity Latch locking the row ahead as it is extended.

GYM SEATS

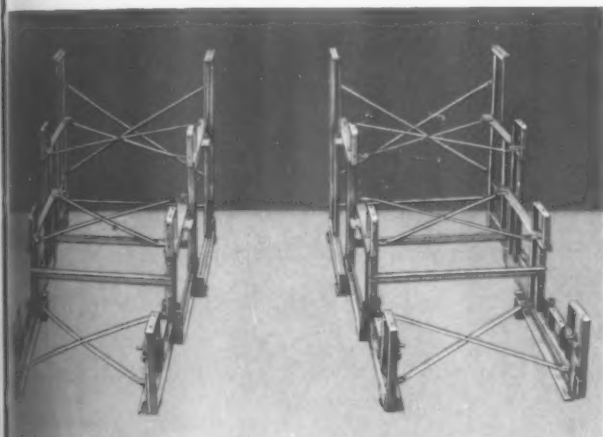
G-1/Sa



comfortable seating

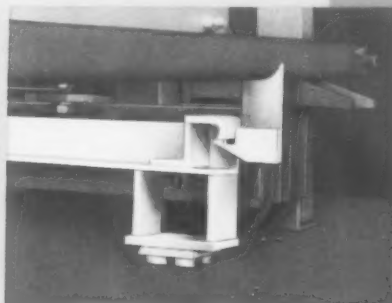
Depending upon your needs, you may select the best combination of seating dimensions from the diagram above. The 17-inch seat to footboard distance is standard with the 10½ or 11¾-inch rise. The 16-inch seat to footboard distance is standard with the 9½-inch rise.

Each seat area has comfortably wide leg room with additional space for toe and heel movement. Each seat board slopes slightly to the rear to help spectators achieve their own best balance. And every seat is usable — even the top seats against the wall. Safway provides an extra wide top seat board for sufficient back room.



bracing

To resist under sway loads, bracing between columns is made in both horizontal and vertical planes. Every row has two steel cross braces, center braced with aircraft type rivets to eliminate horizontal torsion. In addition, under each row there are a minimum of two steel angle braces with widely spaced column connections to eliminate vertical torsion. This bracing insures straight line tracking as the rows telescope in or out. Shown above is the bracing of a typical 4-row 16-foot long section.



POSITIVELY NESTED ... When all rows are retracted, the wheel carriages line up next to the other with all Gravity Latches retracted as shown. Each row's seat and floor board nest beneath the next higher row.

POSITIVELY LOCKED ... When all rows are nested and the front riser board is again depressed, the brake pads are lowered and their welded steel hooks engage the matching brackets on the unlocking bar. This action positively locks the entire section closed.

Superior strength and operating ease are built into every Safway Telescoping Gym Seat installation.

Vertically, eight steel columns, welded into pairs, support each row of a standard 16-foot section. Each row is braced against side sway by steel cross braces in the horizontal plane and angle braces in the vertical plane. The horizontal braces are center pivoted with aircraft type rivets making them doubly effective. The vertical braces are extra efficient through wide spaced bolting to the columns.

Because all rows are interlocked, shock loads are evenly distributed throughout the entire structure. There are no critical parts subject to undue wear.

The Safway design incorporates a minimum of moving parts to reduce friction, drag and parts subject to mal-function. Rollers at each point of metal against metal contact insure smooth movement. Large 4-inch by 1-inch flat faced wheels are self-lubricating and free moving.

Because opening or closing does not depend upon cross arms, scissors type levers, etc., each row rolls with minimum resistance. Power equipment is unnecessary.

In the open position, each row is locked in relation to the other rows, preventing any row from moving independently. In addition, any number of rows can be fixed in place. When closed, the rows are positively locked to the back frame preventing accidental or unauthorized opening. These are the most advanced safety devices being offered.

From start to finish, every function of Safway Telescoping Gym Seats is designed and built for optimum capability. Every part is quality controlled. Every assembly is subjected to rigid performance testing. And, most important, every installation is guaranteed to meet all your requirements where it counts most—in your gymnasium.

For more detailed information about Safway Gym Seats, we will be pleased to send you our full Spectator Seating Catalog, upon request.

SAFWAY STEEL PRODUCTS, INC.

Milwaukee 13, Wisconsin

safway specifications

SCOPE Furnish and install under factory trained supervision, Safway Telescoping Gym Seats as manufactured by Safway Steel Products, Inc., Milwaukee, Wisconsin, or approved equal, in accordance with plans as follows:

.....Group(s)feet longrows high
Group(s)feet longrows high
 (Note: A group is any number of sections required for a given length of wall.) Entire installation shall be guaranteed for one year against faulty materials or workmanship.

OPERATION Gym seats shall operate on the telescoping principle and all columns, or foot and seat supports, shall roll on 4-inch by 1-inch flat faced self-lubricating rubber wheels. When closed, the front of the gym seats will present a flush vertical surface. Each row shall automatically and positively lock in relation to the adjacent rows as the gym seats are opened. Any number of rows may be pulled out and locked open by means of a friction brake operating against the floor and actuated by closing the front riser board. The gym seats shall be positively locked in the open or closed position by means of a cylinder lock mounted on the front riser board.

DESIGN (1) Gym seats shall support, in addition to their own weight, a uniformly distributed live load of not less than 100 pounds per square foot of gross horizontal projection. All seat and foot board members shall be designed for live loads of not less than 120 pounds per linear foot. Gym seats shall resist a horizontal sway force applied to the seats in a direction parallel to their length of 24 pounds per linear foot.

(2) Maximum height, open or closed, shall be
 Maximum extended depth shall be
 Nested depth for all rows, 3 to 16, shall be 36-inches for 22-inch back to back seat spacing, and 38-inches for 24-inch back to back seat spacing.
 On wall-attached gym seats, this distance shall include a top row seat depth of 14-inches to provide as much seating comfort on the top row as on every other row.

(3) Each row shall have a depth of not less than 22-inches back to back of seat boards and a rise between rows of 10½-inches with a distance of 17-inches from seat to foot board. (A row depth of 24-inches back to back of seat boards and a 9½-inch rise with 16-inches from seat to foot board, or an 11¼-inch riser with 17-inches from seat to foot board may also be specified.) Horizontal toe room shall be at least 6-inches beyond foot board, and heel room shall be at least 3-inches behind foot board.

CONSTRUCTION All framework shall be of high quality rolled structural steel angles electrically welded during fabrication into the largest components that can be conveniently handled in the field. Bolted field connections will be held to a minimum. Standard sections shall be as near 16-feet in length as conditions permit. Each row of a standard section shall be supported by not less than 8 rolled structural steel angles welded into pairs to form rigid columns. Angle bracing between columns shall be adequate in size and so located that the all steel welded structure shall be entirely self-supporting before addition of wooden members. Each row shall have sets of angle braces and two pivoted cross braces. Each column shall be supported by two bronze bushed self-oiling 4-inch by 1-inch flat faced rubber wheels completely enclosed in a metal carriage. Metal against metal friction shall be reduced to a minimum by means of rollers located at the front and rear of the wheel carriages and at the top of the seat

columns to permit maximum ease of operation. Gravity operated latches attached to the wheel carriages at the base of columns shall positively lock each row out with respect to each adjacent row. Each section of gym seats shall also be equipped with friction type locks operated by the front riser board which will permit any desired number of rows to be locked open. Keyed alike cylinder locks shall prevent unauthorized opening by positively locking the front row to the back frame. All permanent units shall be secured to the wall and floor in such a manner that movement of the floor will not in any way disturb the stability or alignment of the gym seats.

WOODEN MEMBERS Seat boards shall be laminated Clear Douglas Fir with eased edges finished 1-3/16-inches thick by 9¼-inches wide. Foot boards shall be laminated Clear Douglas Fir with eased edges finished 1-3/16-inches thick by 11¼-inches wide. The top riser board shall be edge glued laminated Clear Douglas Fir hinged to provide a basketball deflection board over the closed cabinet of wall-attached sections. Bottom riser shall be of same construction, hinged, reinforced and provided with hand holes for operating the gym seats. A prop or support shall hold this riser board out of the way for easy access beneath the gym seats for cleaning. All other riser boards shall be one piece Clear Douglas Fir, 25/32-inches thick by 8¼-inches wide. When closed, risers and seat boards shall form the completely flush face of a vertical cabinet.

FINISH All steel parts shall be finished in a School Tan baked-on enamel. Wood parts shall have all edges eased and be undercoated on all surfaces with highest quality Urea-Alkyd base finish. After drying under controlled conditions, the boards shall be carefully sanded, hot-sprayed with a final Golden Oak finish and allowed to dry to a tough, hard coating. Completed wood shall appear full bodied with a high lustre.

MOVABLE GYM SEAT SECTIONS Movable gym seat sections, up to ten rows high, shall be constructed to permit rolling the closed sections from area to area. Each movable section shall be raised onto oversized free-turning wheels for easy movement. When opened, the sections shall have the same stable characteristics as wall-attached sections.

ACCESSORIES: The following accessories shall be furnished as requested:

GUARD RAILS Guard rails of not less than 1¾-inches O.D. steel tubing shall be installed on the open ends of all gym seats.

END PANELS End panels shall be installed on all exposed ends of wall-attached gym seats.

aisle STEPS Aisle steps 36-inches long and 12-inches wide shall be provided in areas between seat boards and risers to effect a vertical aisle.

REMOVABLE SEAT AND FOOT BOARDS Removable seat and foot boards shall be provided, as required, for additional seating capacity between sections which must be kept separated because of doors, partitions, pilasters, etc.

SCORER'S TABLE A scorer's table with a tilted 8-foot by 16-inch plywood top and having a retaining lip on the lower edge shall be provided. No bolts shall be required for assembly.

NOTE: Nothing above shall prohibit Safway from offering latest design innovations.

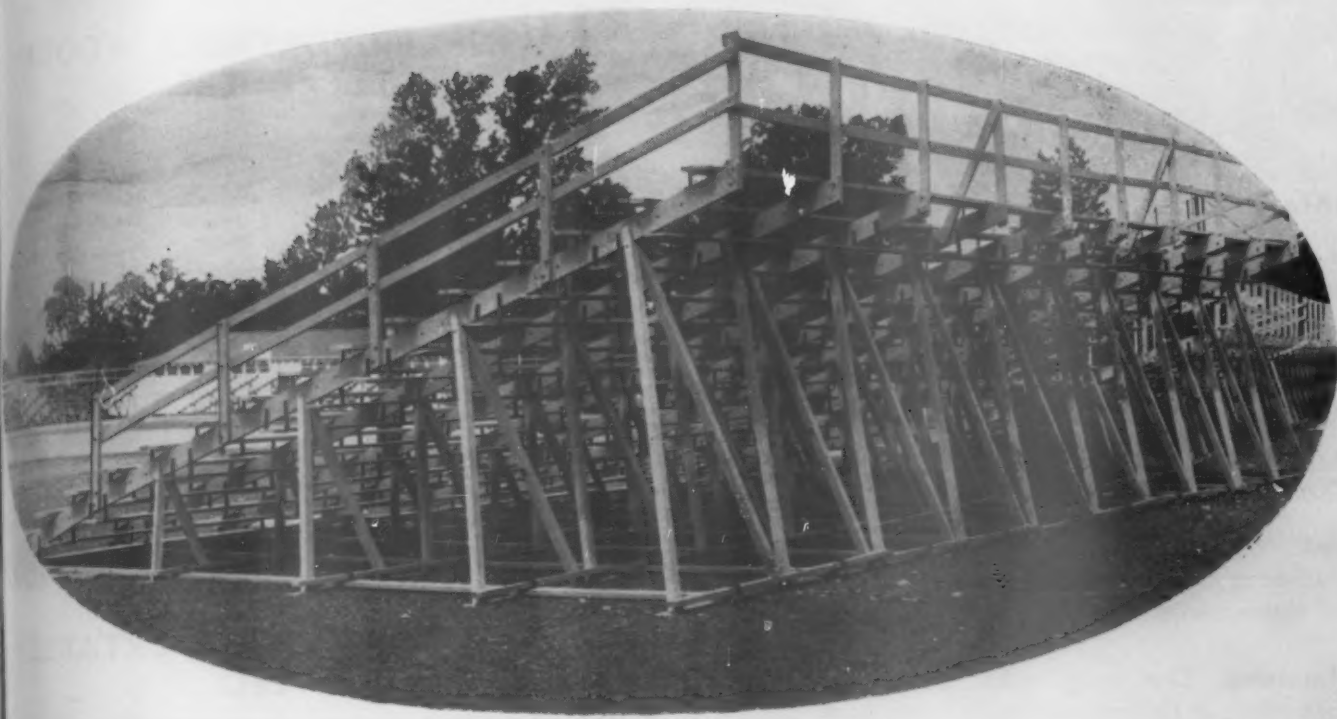
TABLE OF DIMENSIONS AND CAPACITIES OF ONE STANDARD 16' SECTION

No. Rows	Capacity at 16' Per Seat	NESTED DEPTH*				EXTENDED DEPTH*				HEIGHT TOP SEAT			No. Rows	Capacity at 16' Per Seat	NESTED DEPTH*				EXTENDED DEPTH*				HEIGHT TOP SEAT		
		22" B-B	24" B-B	22" B-B	24" B-B	22" B-B	24" B-B	22" B-B	24" B-B	9½" Rise	10½" Rise	11¾" Rise			22" B-B	24" B-B	22" B-B	24" B-B	22" B-B	24" B-B	22" B-B	24" B-B	9½" Rise	10½" Rise	11¾" Rise
3	36	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"	3'-6"	2'-11"	3'-2"	3'-4½"	11	132	3'-0"	3'-2"	19'-6"	21'-2"	9'-3"	10'-2"	11'-2½"	12'-2½"	9'-3"	10'-2"	11'-2½"
4	48	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"	3'-6"	2'-11"	3'-2"	3'-4½"	12	144	3'-0"	3'-2"	21'-4"	23'-2"	10'-½"	11'-½"	12'-2½"	13'-2"	10'-½"	11'-½"	12'-2½"
5	60	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"	3'-6"	2'-11"	3'-2"	3'-4½"	13	156	3'-0"	3'-2"	23'-2"	25'-2"	10'-10"	11'-11"	13'-2"	14'-1½"	10'-10"	11'-11"	13'-2"
6	72	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"	3'-6"	2'-11"	3'-2"	3'-4½"	14	168	3'-0"	3'-2"	25'-0"	27'-2"	11'-7½"	12'-9½"	14'-1½"	15'-1½"	11'-7½"	12'-9½"	14'-1½"
7	84	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"	3'-6"	2'-11"	3'-2"	3'-4½"	15	180	3'-0"	3'-2"	26'-10"	29'-2"	12'-5"	13'-8"	15'-1½"	16'-1½"	12'-5"	13'-8"	15'-1½"
8	96	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"	3'-6"	2'-11"	3'-2"	3'-4½"	16	192	3'-0"	3'-2"	28'-8"	31'-2"	13'-2½"	14'-6½"	16'-1½"	17'-1"	13'-2½"	14'-6½"	16'-1½"
9	108	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"	3'-6"	2'-11"	3'-2"	3'-4½"	17	204	4'-6"	4'-10"	30'-2"	32'-10"	14'-0"	15'-5"	17'-1"	18'-1"	14'-0"	15'-5"	17'-1"
10	120	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"	3'-6"	2'-11"	3'-2"	3'-4½"	18	216	6'-4"	6'-10"	32'-0"	34'-10"	14'-9½"	16'-2½"	18'-1"	19'-1"	14'-9½"	16'-2½"	18'-1"

* Extended and nested depths shown above provide a top seat of approximately 14" to assure the same comfort for top row seats as on all others. Information for capacities and dimensions for higher rows than 18 available upon request.

SAFWAY STEEL PRODUCTS, INC.

63rd ST. AT WEST STATE • MILWAUKEE 13, WIS.



WINKLER

mass seating

- **maximum safety**
- **portability plus**
- **high grade materials**
- **rigid quality control**
- **delivery to erection site**

From blue print to finish coat your bleacher is precision fabricated at our own factory.

WINKLER MFG. CO., INC.

P. O. BOX 336, BATON ROUGE, LA.
WA 1-0111 DI 8-2673

WINKLER SPECIFICATIONS

materials

All Winkler Bleachers, Portable and Permanent types, are carefully crafted of select materials.

lumber All select No. 1 and better Southern Yellow Pine or Douglas Fir, 2" dressed and treated with "Woodlife," a pentachlorophenol wood preservative, for protection against warpage, rot, termites and for water resistance.

paint Woodwork has specially prepared high quality bleacher enamel. All steel parts are cleaned, primed and finish coated.

galvanizing Steel may be hot dip galvanized after fabrication, if desired, for small extra cost.

bolts Erection bolts all 3/8" galvanized. Flush head, watertight patented bolts for seats.

steel All ASTM-7 or better. Stringers are Junior I-beams of special copper bearing analysis.

loading

All Winkler Bleachers have been checked by a registered engineer and comply with AISC specifications as well as those set forth in "Places of Outdoor Assembly." In addition they comply with the following specifications for strength.

live load 120 pounds per linear foot of seat and foot board

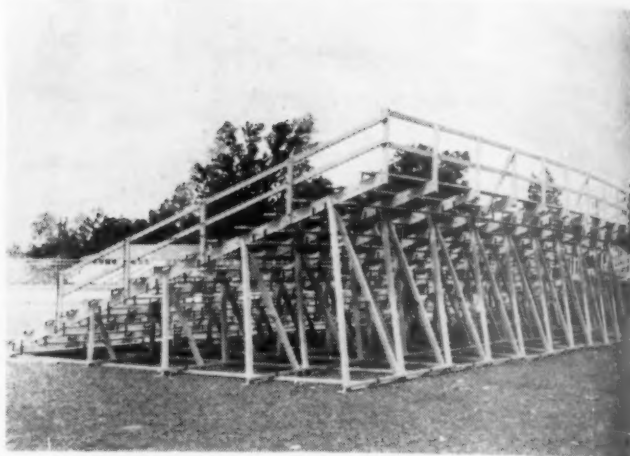
sway load 24 pounds per linear foot of seat board, along the board. 12 pounds per linear foot of seat board, front to back.

wind load 30 pounds per square foot (90 m.p.h.)

safety factor 3.4 to 1.

We invite you to let our engineering department help solve your seating problems at no cost or obligation. Write us giving seating capacity desired and space available. A prompt estimate will follow. List of nationwide and overseas installations at schools, armed forces bases, race tracks and recreation areas available on request.

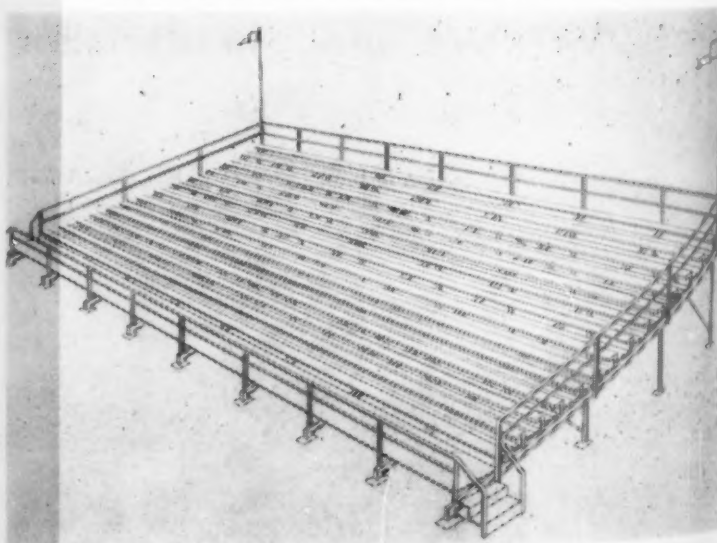
■ WINKLER PORTABLE WOODEN BLEACHERS



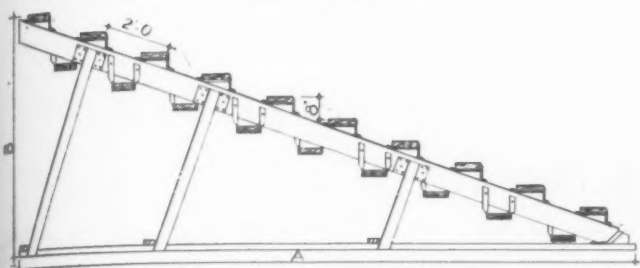
■ SOUTHERN BELLE PORTABLE STEEL



■ PERMANENT STEEL GRANDSTANDS

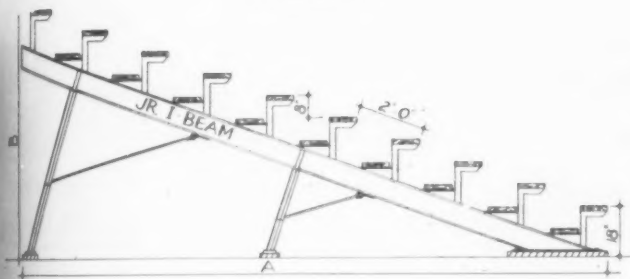


WOODEN SOUTHERNAIRE (Portable)



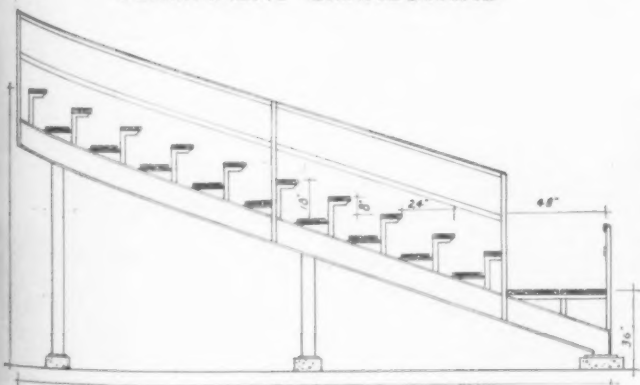
WOODEN SOUTHERNAIRE carefully crafted from smooth, painted lumber. A proven leader in safety, appearance and portability. Available from 2 to 20 rows. (Request Catalog W-S)

SOUTHERN BELLE (Portable)



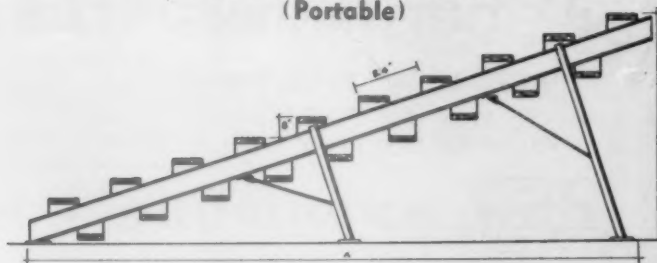
SOUTHERN BELLE our deluxe patented steel portable. Annular ring welded into Jr. I-beam slips over pin on top of jack for fast, secure set up. Foot boards are above stringers for free lateral passage. Available 2 to 25 rows with or without front walkway and guardrails.

PERMANENT GRANDSTAND



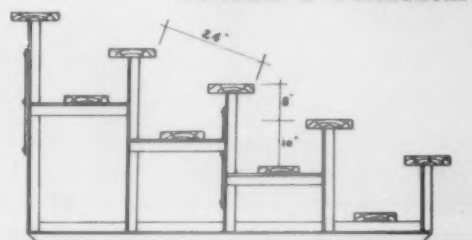
GRANDSTANDS that combine safety and comfort with low cost and long life. Aisles available. Galvanizing recommended for lower upkeep. Erection at site by Winkler crews if desired. (Request photos)

STEEL SOUTHERNAIRE (Portable)



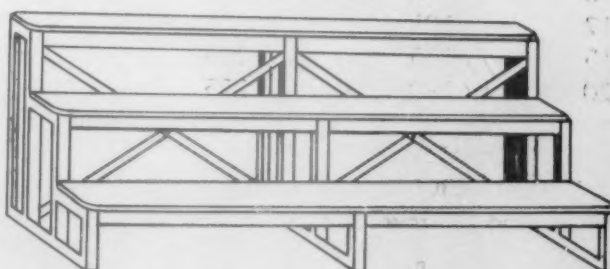
STEEL SOUTHERNAIRE is a strong, economically priced welded steel bleacher. Jr. I-beam stringer and angle iron jack provide fast, no bolting erection of steel. 2 to 20 rows.

SKID-ABOUT (Portable & Permanent)



SKID-ABOUT is a steel bleacher designed for moving without dismantling. Available in 2 to 10 row units. Up to 10 rows you need only bolt wood and X-braces to strong unit weldments. Modular ten row units may be used as double length of 5 row bleachers. (Request catalog S-A)

SNAP-UP RISERS (Portable)



SNAP-UP is a sturdy riser that can be set up in two minutes by one man. Light weight components and clever design make this riser both the most portable and the strongest. (Request catalog S-U)

Also Available:

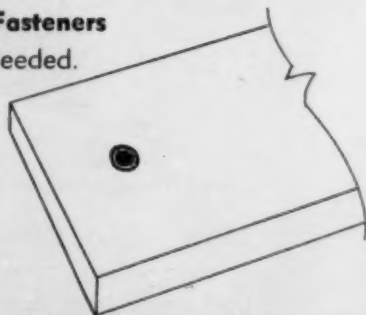
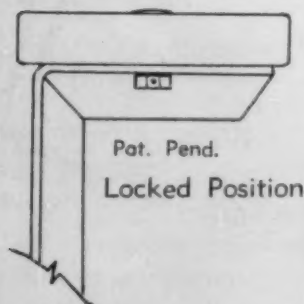
CHAIR RAMPS, 5 to 50 rows
CHAIR RISERS, 2 to 50 rows
ALUMINUM BLEACHERS

NEWEST

OUTSTANDING, EXCLUSIVE TIMESAVERS AVAILABLE

"AUTO-LOCK" Board Fasteners

No Parts To Lose. No Tools Needed.

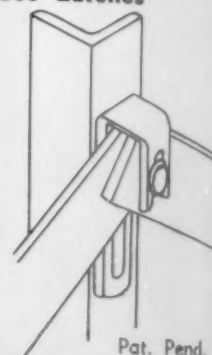


Lock retracts automatically for stacking when board is turned over. Nothing to interfere with stacking. Nothing to drop.

AT SMALL EXTRA COST

"SNAP-ON" X-Brace Latches

Built into your "Skid - About" or "Snap-up" stand. No parts to drop or lose. Extra easy to operate. Small and inconspicuous



ALL PORTABLE PRODUCTS OF **WINKLER MANUFACTURING CO.** FEATURE maximum safety and maximum portability plus easy, compact storage. Bleachers can be transported in conventional trucks, quickly assembled and dismantled with small unskilled crews.

Patented A-frame requires no bolting to stringer.

Non-overlapping seat and foot boards safely fastened. Cannot be dislodged.

Structural steel Jr. I-beam stringers.

Thick 2 inch seat and footboards for extra strength without extra cost.

Our rigid quality control assures you the finest product.

The following charts may help you decide how many rows high your bleachers will have to be in order to provide seating capacity desired within available space.

SECTION CAPACITY AT 16" PER SEAT

Rows	12' Section	15' Section	16' Section
2	18	22	24
5	45	56	60
6	54	67	72
8	72	90	96
10	90	112	120
12	108	135	144
15	135	168	180
20	180	225	240

SECTION CAPACITY AT 18" PER SEAT

Rows	12' Section	15' Section	16' Section
2	16	20	21
5	40	50	53
6	48	60	63
8	64	80	85
10	80	100	106
12	96	120	127
15	120	150	159
20	160	200	213

DIMENSIONS OF PORTABLE BLEACHERS

illustrated on reverse side of sheet

No. Rows	B Height	A Depth
5	4'-0"	8'-6"
6	4'-6"	10'-10"
8	5'-6"	14'-0"
10	7'-0"	18'-0"
12	8'-6"	22'-0"
15	10'-0"	28'-0"
20	14'-0"	38'-0"

Others to Your Order

HOT DIP GALVANIZED BLEACHERS are our specialty. Hot dip galvanizing **after** fabrication is often preferred because the heavy zinc coat protects welds as well as structural steel against rust and corrosion for many years.

WINKLER MFG. CO., INC.

DESIGNERS, FABRICATORS & ERECTORS

BOX 336, BATON ROUGE, LOUISIANA

AMERICAN BRIDGE

American Bridge Division, United States Steel Corporation

General Offices: 525 William Penn Place, Pittsburgh 30, Pa.

Contracting Offices in: New York • Boston • Chicago • Dallas • Atlanta • Denver • Los Angeles and other principal cities

Low First Cost and Low Maintenance with Steel Grandstands and Swimming Pools



STEEL-DECK STADIUMS AND GRANDSTANDS cost less to build and less to maintain than other permanent types of construction. They are easily adapted to any local requirements as to size and design . . . and to ground contour without extensive grading. They are easy to extend by adding standard sections at the ends, or by double-decking with watertight steel plates which form a perfect roof for room facilities beneath the stadium for lockers,

showers, class rooms, office space, or concession booths.

AMERICAN BRIDGE steel-deck stadiums and grandstands are the product of more than 30 years of technical and practical experience in this specialized field of construction. Every job is scientifically plotted and designed for maximum spectator comfort and convenience . . . and economy to the owner. Cost estimates furnished without obligation for definite projects.



THE USS AMBRIDGE STEEL SWIMMING POOL, because of its all-steel construction, is the most durable type on the market. It costs less to install. And except for an occasional coat of paint, it requires no maintenance.

It is the result of more than a decade of research, experimentation, and testing by the world's largest fabricator of structural steelwork. The copper-bearing, rust-resistant steel sections fit snugly and easily together. Pre-

fabricated sections are permanently welded watertight. It will not crack or be troubled by freezing or frost action.

AMBRIDGE Steel Pools are available in standard "Pleasure or Regulation" Pool sizes: Pleasure Pools of 20' x 40', 50' and 60'; Regulation Pools of 42' x 82'6", 35' x 75', and 35' x 105'. We welcome an opportunity to help you select the pool best suited to your requirements.

ARROW BLEACHER COMPANY

Division of Universal Manufacturing Corp., Zelienople, Pa.

Manufacturers of Dichromate Galvanized Bleachers and Grandstands

ARROW OFFERS

MAINTENANCE-FREE SEATING
AT NO EXTRA COST.

PLUS

24-INCH SPACING
for greater seating comfort and capacity

Now you can have a maintenance-free bleacher seat installation for any size field with Arrow Bleachers. Arrow Bleachers are *dichromate galvanized*... electro-galvanized with a chromate coat *at no extra cost*, so that all structural steel members are protected with a long-lasting, smooth coating which virtually eliminates rust. The costly periodic painting formerly necessary for good outdoor bleacher maintenance is no longer required. In addition, the rich golden color of dichromate galvanizing gives a pleasing over-all appearance to every installation.



ARROW TYPE S GRANDSTAND

For larger, permanent field seating, the Type S grandstand is available in any number of seats, any number of rows. The solid tower construction meets the requirements of the most rigid safety codes. Large open area under the seating is ideal for locker, washroom, or groundskeeping facilities.



ARROW TYPE C BLEACHER

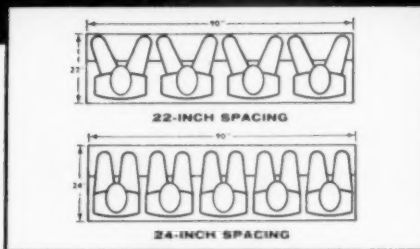
For smaller, semi-permanent bleacher seats, specify Arrow Type C, featuring panel-type construction with built-in flexibility which adjusts to any irregularities of the surface on which it is placed. Panel-type construction assures you the strongest construction possible and a safer seating installation.

CHECK THESE OUTSTANDING CONSTRUCTION FEATURES OFFERED BY ARROW



OPEN AREAS UNDER SEATING

The Arrow Type S Grandstand features 12-foot wide areas between supporting towers, usable for locker or washroom facilities, equipment storage, and for groundskeeping equipment. Also provides easy access for structural inspection required by safety codes.



24-INCH BACK-TO-BACK SPACING

All Arrow designs feature modern, comfortable 24-inch back-to-back spacing. Whether you plan on 16- or 18-inch seats, your seating capacity is increased 25%. Spectators are more comfortable and traffic moves faster along rows.



PANEL TYPE CONSTRUCTION

Panel type construction used on the Arrow Type C Bleacher simplifies the erection of the installation. No heavy equipment needed, and this type construction allows for uneven ground surfaces.

HOHMANN & BARNARD OF ALABAMA, INC.

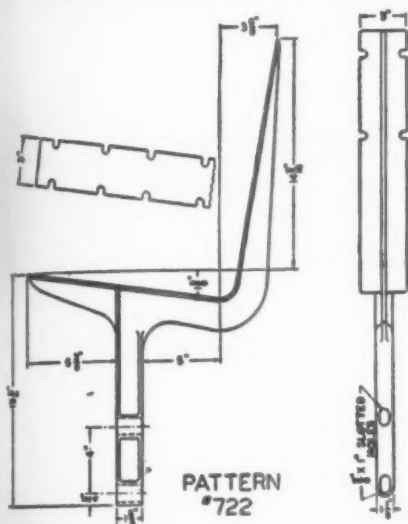
1016 First Avenue North, Birmingham 4, Ala.

Eastern Office: Hohmann & Barnard, Inc., 204 East 33rd Street, New York 16, N.Y.

Eastern Plant: Woodside, New York

Middle Atlantic Plant: Hohmann & Barnard of Va., Inc., 419 Calvert Avenue, Alexandria, Virginia

Stadium Grandstand and Gymnasium Balcony Seating



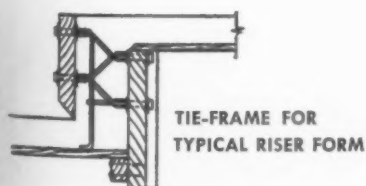
TYPICAL SPECIFICATION

Seat Bracket Pattern No.—
as manufactured by Hohmann & Barnard, Inc.,
New York 16, N.Y. and
Birmingham 4, Alabama
and Tie-Frame Anchorage
as Manufactured for Hohmann and Barnard, Inc.

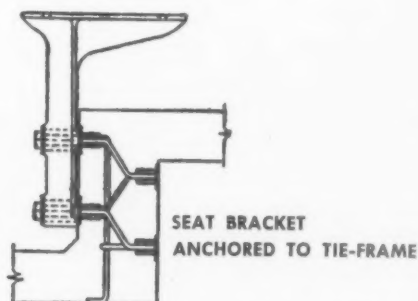
SPECIFICATIONS

Seat Bracket and Seat Bracket Anchorage details shown on the drawings are to be used as a guide only. Seat Brackets shall conform in every dimension that affects posture position, body supporting areas, and the relation of these areas to the concrete treads and risers; and they shall support a static load of 1000 pounds applied through any seat plank (and a 500 pound static load applied through back-rest plank). Seat Bracket anchorages shall support the load described above when embedded in 2000 pound concrete. (see Typical Specification below)

Seat Brackets are available in Malleable Iron and (or) Grey Iron. If Hot-Dipped galvanized Seat Bracket is desired we recommend that Grey Iron Seat Bracket be specified.

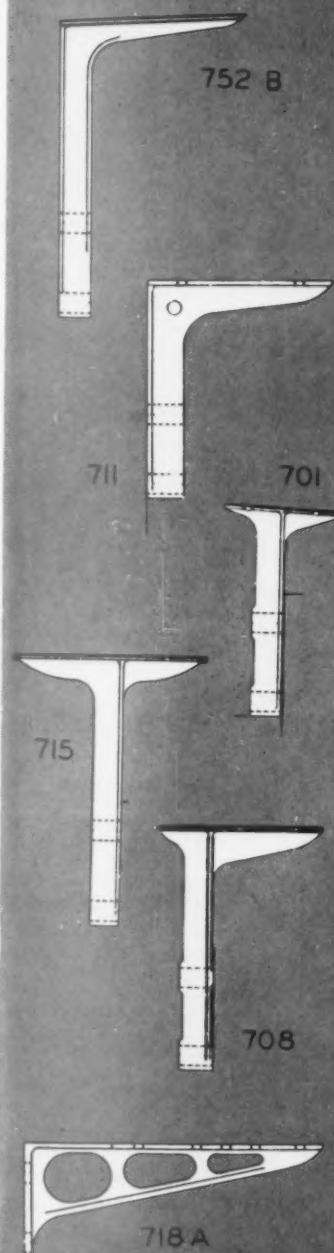


TIE-FRAME FOR
TYPICAL RISER FORM



SEAT BRACKET
ANCHORED TO TIE-FRAME

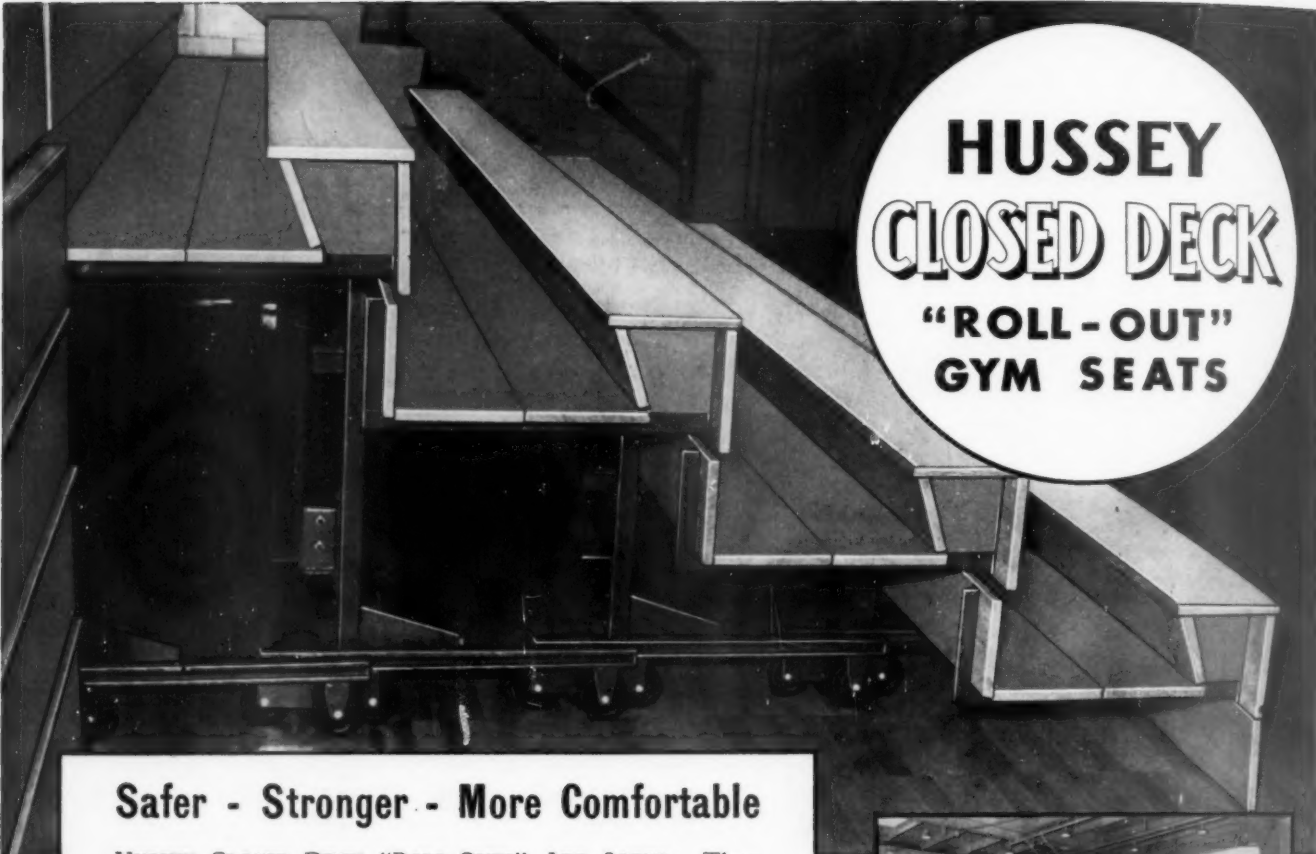
Our Facilities are yours to command in providing the exact type or series your work may require—send sketch.



25 Years Experience on over 1000 Projects

HUSSEY MFG. CO., INC.

5814 Railroad Avenue, North Berwick, Maine



HUSSEY CLOSED DECK "ROLL-OUT" GYM SEATS

Safer - Stronger - More Comfortable

HUSSEY CLOSED DECK "ROLL-OUTS" ARE SAFER. There are no openings through which spectators can fall or drop things. Fire hazards are reduced because litter cannot collect under the stands. Their extra safety features justify lower over-all public liability insurance rates.

HUSSEY CLOSED DECK "ROLL-OUTS" ARE MORE COMFORTABLE. Leg room is scientifically designed for maximum relaxation. Women, especially, feel more at ease in closed deck seats. Hussey's full 16 1/4" footboard insures that every size foot rests entirely on a solid base with room to spare. There's ample toe room.

HUSSEY CLOSED DECK "ROLL-OUTS" CUT JANITORIAL COSTS. By actual test Hussey closed deck seats can be swept 25% faster. Seats can be closed immediately because there is no trash on the floor to jam the wheels.

Closed Deck Seating is an exclusive Hussey feature and is available for new and old construction.

Let Hussey help you solve your seating problems. Write, wire or phone for complete information and Free Catalog.

Representatives in all Central and Eastern States.

Hussey also manufactures Portable and Permanent Sectional Steel Bleachers and Grandstands for outdoor and indoor use.

Ask for Free Catalog.



STANDARD HUSSEY "ROLL-OUT"



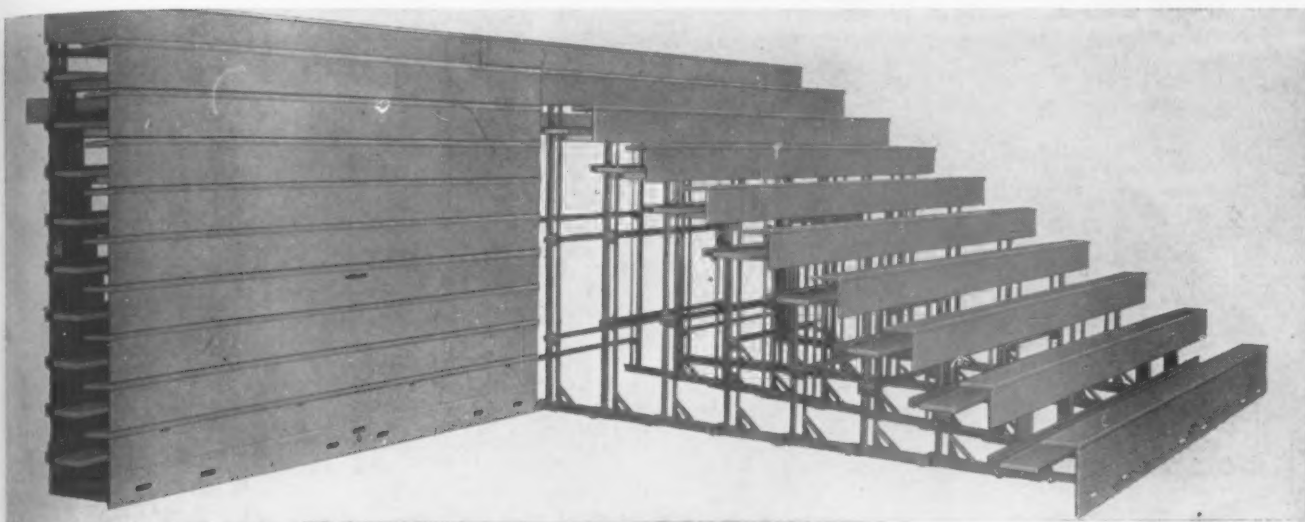
"ROLL-OUT" MOVABLE SECTIONS



HUSSEY MFG. CO., INC. 5814 RAILROAD AVE. NORTH BERWICK, MAINE

FRED MEDART PRODUCTS, INC.

3550 DeKalb St., St. Louis 18, Missouri
SALES ENGINEERS IN ALL PRINCIPAL CITIES



MEDART TELESCOPIC GYM SEATS

Name the factors you consider the most important in gym seats ... Safety and strong construction?—Roomy seating capacity?—Maximum visibility?—Comfort?—Ease of operation?—Accessibility for cleaning and maintenance?—Lowest upkeep? Whatever feature tops your list of "musts," critical comparison will prove the superiority of Medart Telescopic Gym Seats.

Medart's stronger, self-supporting, free-standing steel under-structure does not depend on oblique bracing, springs, wall supports or wood members to support over 400 pounds per linear foot per row. Instead, seats, footboards and risers provide extra strength and rigidity.

Each row is supported on twin angle vertical uprights—4 of them to each 16-foot row—that place the seated load on the floor, not the wall.

To suit every seating and seeing requirement, Medart Seats are built with either 22" or 24" spacing between rows, and with 10½" or 11½" row rise. Several extra inches of toe and heel room make them roomier, more comfortable.

These, and many other advantages explain why Medart Seat installations far outnumber all others.

MEDART SEATS ARE ALSO MADE IN THE FOLLOWING TYPES:

MOVABLE: Compact, easy to handle, readily stored. Perfect in structures where wall-attached or recessed seats are impractical.

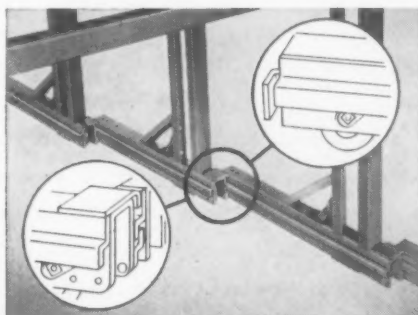
2-LEVEL: Wall-attached or movable type for installation on balcony and main floor provide maximum seating capacity, but "recover" virtually all floor space for normal class use.

RECESSED: Free entire floor area when closed. Recess of adequate depth and height required in new buildings, plus provision for anchoring.

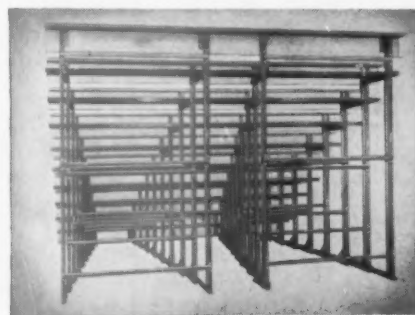
Write For Complete Catalog



"Floating Motion" operation. Interlocked telescoping arms and supporting members float in and out with amazing ease, prevent binding, ensure true alignment. Medart Seats are easiest of all to operate.



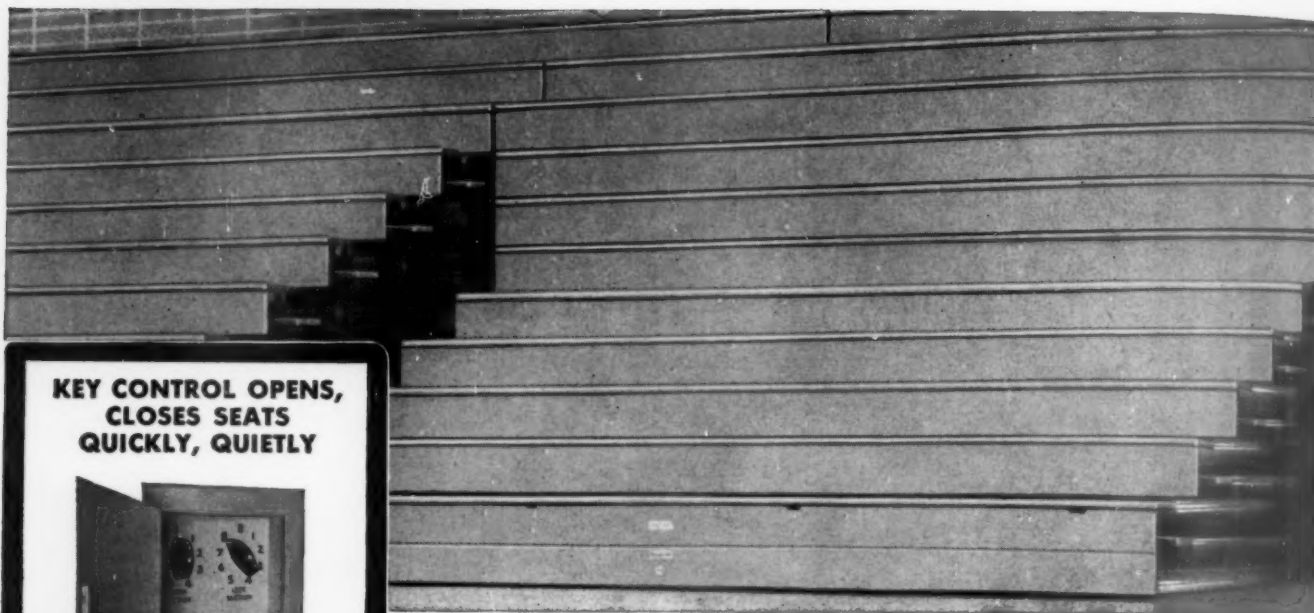
"Dual Align" roller housings are interlocked for straight line trackage during opening and closing. Non-marring rollers retract under load; place upright load directly on floor.



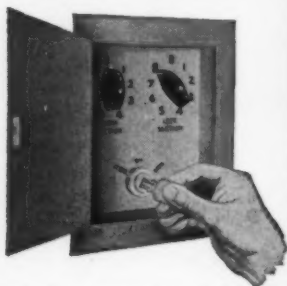
Safer Weight Distribution. maximum resistance to sway, greater strength and ultimate compactness is obtained by staggering the 8 vertical uprights under each row.

FRED MEDART PRODUCTS, INC.

MEDART POWER OPERATED GYM SEATS



**KEY CONTROL OPENS,
CLOSES SEATS
QUICKLY, QUIETLY**



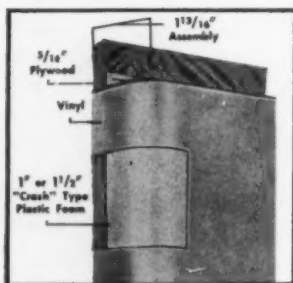
Moves the biggest seat sections into position in a few seconds. If all seats in any section are not needed, release of key stops movement instantly when wanted number of rows are in position. Automatic safety controls insure hazard-free operation. Key-operated control can be remotely installed anywhere. Removable key prevents unauthorized operation.

* Patents Pending

Automation eliminates all manual effort—Power operators self-contained in seat sections—Key control switch may be installed anywhere

MEDART'S FULL AUTOMATIC POWER OPERATION* opens and closes the largest gym seat sections quickly, quietly, safely, without physical effort. Crashing, banging is eliminated—life of seats is prolonged—maintenance is reduced to a minimum. No special construction provisions, no floor tracks necessary. Building conditions remain same as for manually operated seats. Any 110-v. or 220-v. power source will do. Power operation plus Medart's exclusive "Floating Motion" and "Dual Align" guarantees smooth, non-binding trackage.

MEDART SAFE-WAL CUSHIONED WAINSCOT



Safe-Wal has been designed especially to prevent wall-crash injuries in gyms and multi-purpose playrooms. Attractive and colorful, sound absorbent and sanitary, Safe-Wal costs less than many types of hard surface wainscoting such as tile, terra cotta, wood, plaster, other wall finishes. Easy to apply over rough plaster. Resists dirt, grease, moisture. No maintenance necessary except occasional cleaning. Furnished in green, tan, gray.

Write for brochure.



FRED MEDART PRODUCTS, INC.

MEDART BASKETBALL BACKSTOPS



Official Fan-Shaped Backboard
Herculite tempered glass cushioned in Neoprene. Double angle welded frame. Will replace any Medart fan-shaped steel backboard. (Not shown) Medart's famous Official fan-shaped steel backboard built of a single 12-gauge shell, channel reinforced.

The "Plus Value" of Medart Backstops is not only in their superior construction, but in the responsibility Medart assumes at the planning and specification stage to guarantee a true "Tailored-To-The-Job" installation—rugged, durable and rigid—and one that fully conforms to the Official Standards of the National Basketball Committee. Medart analyzes structural conditions, helps choose the RIGHT backstop, and then follows through to assure faultless erection and completely satisfactory operation.

REMOTE-CONTROLLED POWER OPERATION

Key-operated switch on gym wall or other convenient location lowers or raises backstops smoothly, quietly, safely, quickly. Eliminates hand-operated winch. Can also be installed on most Medart suspended backstops already in use.

Write for Catalog

Official Rectangular Backboard
1/2" Herculite tempered glass cushioned in Neoprene. Sturdy metal frame. Medart also makes a ruggedly framed, thick plywood rectangular backboard, a favorite for practice.



MEDART BASKETBALL SCOREBOARDS

Everything big-time equipment should have *plus extra* features that make these scoreboards the game's best and biggest values. Tops in precision, speed and control simplicity. *Write for Brochure.*

SELEKTOR®
MODEL MB-900



◀ No other scoreboard made, regardless of price, offers more in split second accuracy, mechanical dependability and easy operation. **AUTOMATIC** time recording in minutes and seconds with time left to play automatically diminishing in seconds. **COLORFUL**—"Time" panel is green during play; turns red during time out. Timing figures are green, scoring figures amber, quarter lights red. **SEPARATE HORN** automatically signals end of periods (or can be manually operated from control box) **HIGH VISIBILITY** anywhere in gym. Big 10" x 6 1/2" numerals contain 24 lamps, each in reflecting tube. **QUICK RESET** can be made to any desired time. **POSITIVE CONTROL** by self-returning toggle switch type control box. **BIG AND RUGGED**—72" x 34 1/2". Reinforced steel construction. Black wrinkle finish; other colors available. **EASY SERVICING**. All operating units of plug in type.

An excellent scorer and timer, 32" wide, 53" high, at a real economy price. **VISION TESTED NUMBERS**—10" x 6 1/2"—made up of 24 amber lamps in bright reflector tubes. **BIG CLOCK** 25" diameter face, white baked enamel on steel. Available for 6, 8, 10 or 20 minute periods. Synchronous motor, dead stop brake. Timer stops automatically at end of period. **AUTOMATIC SIGNALLING** at end of period by extra loud portable horn. (Can be operated manually from control box.) **INSTANT CONTROL** from toggle-switch operated control box. **BUILT TO LAST**. Construction, all steel reinforced. Wiring comparable to highest priced scoreboards. Black baked-on wrinkle finish.



CLOCK TYPE
MODEL
MB-800

MEDART GYMNASIUM APPARATUS



Medart is the largest and most complete source anywhere for gymnasium equipment! Built into every item of apparatus is over 80 years of experience in the manufacture of the finest equipment available. Acceptance of Medart by thousands of leading schools, colleges and gymnasiums, by the U.S. Armed Services, Olympic Games and championship meets all over the world is ample testimony of Medart quality and design which meets or exceeds every Official Standard.

Write for Catalog

MEDART'S COMPLETE LINE INCLUDES:

- Side and Vaulting Horses
- Parallel Bars
- Horizontal Bars
- Swivel Flying Rings
- Climbing ropes, poles & ladders
- Pommel-Medart Twisting Belt
- Stall Bars
- Resistance Machines
- Mats & Mat Trucks
- Boxing Rings and equipment
- Vault, jumps & game standards
- Rowing Machines
- Pulley Weights
- Physical Therapy equipment
- Anthropometric equipment
- and virtually every other item desired for physical training.

PITTSBURGH-DES MOINES STEEL COMPANY

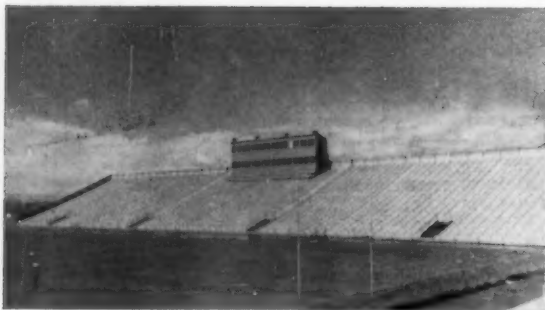
Plants at Pittsburgh, Baltimore, Des Moines, Santa Clara, Fresno, Stockton



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Steel Deck Grandstands

Pennsylvania State University, University Park, Pa. Capacity 30,000. This installation grew section by section from a stand seating 2400 in 1934, in steady progression to the large structure of today—thanks to the unitized steel flexibility of PDM grandstand design.



University of Wyoming, Laramie, Wyo. Capacity 7500 (one of two stands, total capacity 15,000).



Allegheny College, Meadville, Pa. Capacity 2880. Enclosed under-deck area shelters dressing and locker rooms, etc.

Engineered for each application

In every PDM grandstand installation, the individual requirements of the job are met by specific PDM engineering. Starting with the basic PDM concept of steel deck, beams and columns in modern unit-section design, Pittsburgh-Des Moines Grandstands are built into any arrangement called for by the school layout—from small, simple stands to elaborate four-sided stadia. We design each project by itself, and provide the plus values of lower costs and rapid erection inherent in unitized steel construction.

Safe—Permanent—Economical

Since they have the permanence of steel, PDM Grandstands are a lifetime investment. They will not weaken or collapse, for they cannot rot or decay. The initial cost is relatively low, and an occasional coat of paint is all the maintenance necessary to keep them new-looking year after year. Weather-tight underdeck space may be utilized for dressing rooms, toilet facilities, storage space, etc. Grandstands are furnished complete with guardrails, steps or ramps, and built-in press box, if specified. The wood seat planks are supported by cast iron or welded steel stools which are bolted to the deck. Other types of seating also can be furnished.

Size and seating capacity

Pittsburgh-Des Moines Steel Deck Grandstands may be any length, and any number of rows deep. For economy, however, we recommend that the length of the stand be 15 or 15 plus any multiple of 8 (such as 23, 31, 39, etc.). Seating capacity of a grandstand, with due allowance made for aisle space, may be calculated as follows:

$$\text{Basis } 16 \frac{1}{2}'' \text{ seat widths } S = R \times L \times \frac{2}{3}$$

$$\text{Basis } 18'' \text{ seat widths } S = R \times L \times \frac{11}{18}$$

Where S is seating capacity of stand

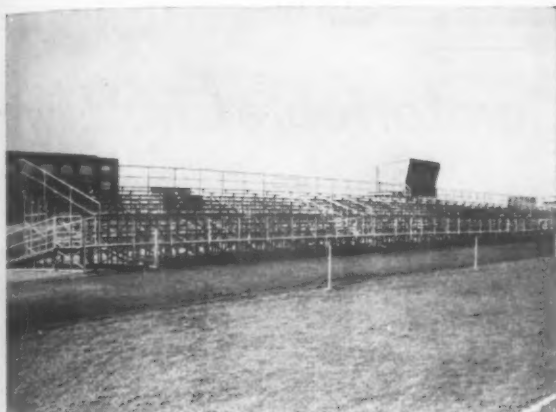
R is number of rows in stand

L is length of stand in feet

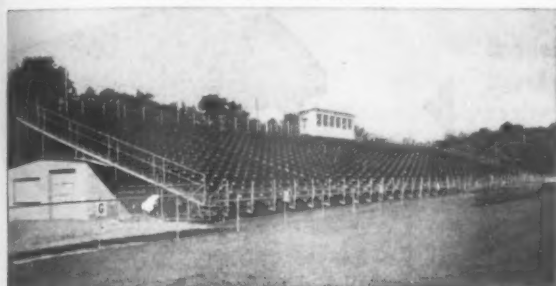
Send for full details in our latest 20-page Grandstand Catalog.

PLAYTIME EQUIPMENT CORP.

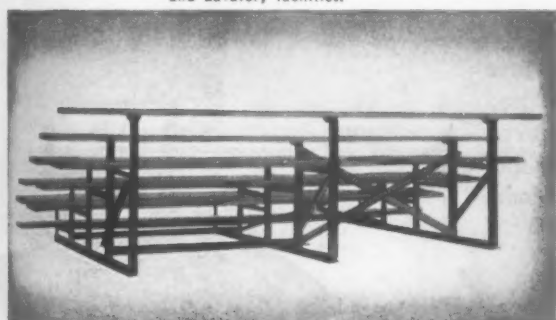
Mars, Pennsylvania



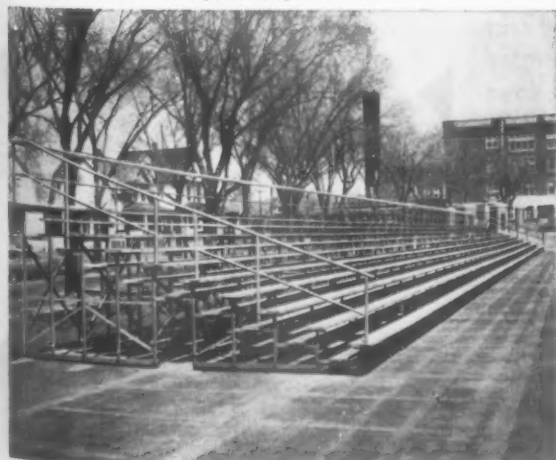
10 Row DUR-A-BILT Bleacher with Press Box, Front Walkway and Ramps.



25 Row PERM-A-STAND with understand Locker Storage and Lavatory facilities.



- ▲ 5 Row PORT-A-BILT Bleacher for extra seating space indoors or out.
- ▼ 10 Row DUR-A-BILT Bleacher — note UNI-FRAME panel design.



AMERICAN SCHOOL AND UNIVERSITY—1958-59



"Designed With Tomorrow In Mind"

Here's athletic field seating **ENGINEERED** to meet today's needs . . . readily expandable, by adding rows or increased length, to meet the needs of tomorrow. The several **PLAYTIME** installations shown are examples of the modern look in bleacher seating. Take **DESIGN** features for example:

PLAYTIME Bleachers are standard 24" depth per row. This assures maximum comfort and ample space for spectator passage. The 8" rise from row to row affords much clearer spectator visibility and ample leg room from any position.

When it comes to **CONSTRUCTION** details, **PLAYTIME** again leads the field. Load bearing members are $\frac{1}{4}$ " structural angular steel, with joints welded over the entire top and side surfaces to form one-piece "**UNI-FRAME**" panels that more than meet the most rigid safety requirements. Seat and foot boards are select West Coast Douglas Fir, treated with rot-inhibitive sealer to retard deterioration.

Next comes the matter of **FINISH**. How do you counteract the ravages of rust and corrosion? **PLAYTIME** has the answer by Hot-Dip **GALVANIZING** Bleachers after fabrication. This stops rust at manufacturing source, thereby eliminating future painting and scraping operations, a factor that makes ownership of ordinary bleachers a costly liability.

Add it all up — **ENGINEERING** know-how . . . **DESIGN** principles . . . **CONSTRUCTION** details . . . **FINISH** by Hot-Dip **GALVANIZING**. Then, to get the best advantage of these plus factors, why not invite a **PLAYTIME** representative to discuss your requirements when athletic field seating first enters your plans.

PLAYTIME Bleachers are available as individual or, continuous units, elevated or ground flush, 3 to 30 rows in depth.



"FOR YOUR GAME SEATING COMFORT"

Send for **FREE** descriptive literature, specific recommendations and quotations. Distributors in all principal cities.

SCOTT PORT-A-FOLD, INC.

715 Middle St. • Archbold, Ohio

World's Leading Manufacturer Stadium and Sports Seats

Convert Bleacher Seats into Comfortable Chairs with SCOTT FOLDING SEATS

Many schools and colleges have found it highly profitable to offer spectators the comfort of Scott Seats at increased admission prices. Low initial cost and long life make them a paying proposition for many years.

*May be Installed Permanently or Used
on a Game-Rental Basis*

MODEL CS-53—The ideal seat for use on rollaway bleachers. Upholstered 10" x 13" padded canvas seat and canvas backrest. Frame of 3/4" steel tubing, zinc chromate plated to protect against rust. Folding front hooks clamp to any board seat. Folds compactly. Weighs but 2½ pounds.

Off-Back Hinges will Support 300# Person



MODEL HO-35—Specially designed for use where aisle space is restricted. Upholstered 10½" x 14½" seat with recessed hold-down screw holes. Contoured pressed wood backrest. Baked enamel finish on metal parts. New center pivot hook for temporary installation. Available with cushion cork seat as Model HO-36.

Available in School Colors if Desired



MODEL HO-31—Large 12½" x 14½" heavily upholstered seat covered with Boltaflex vinyl plastic. Posture-curved pressed wood backrest. Baked enamel finish on metal parts. Hold-down brackets, available for permanent installations, automatically space seats 18" center to center.



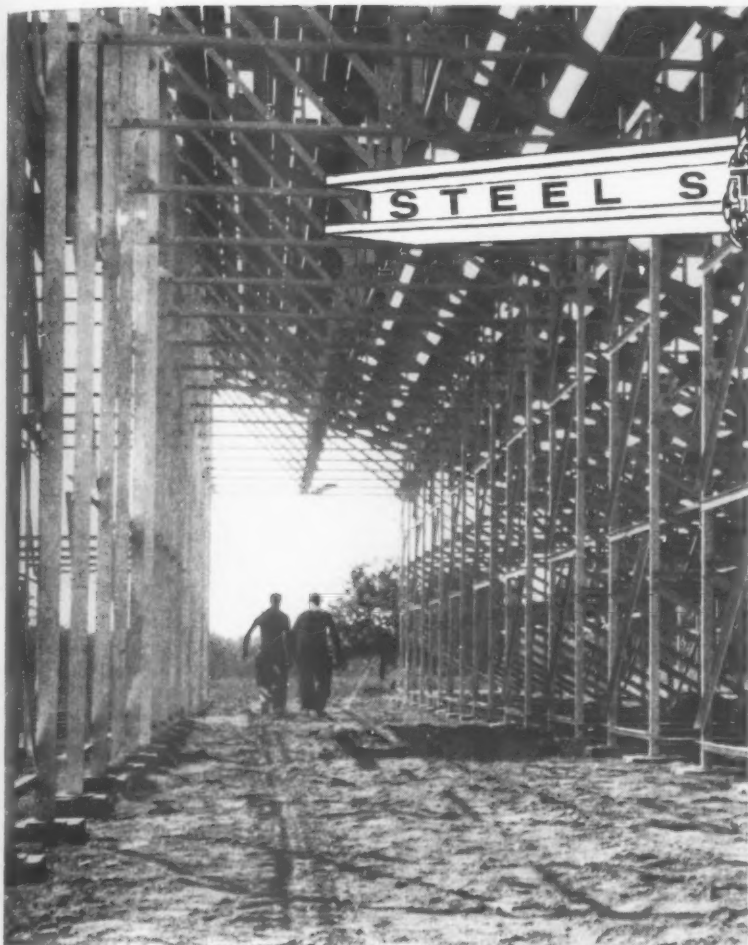
Write for prices and literature illustrating 33 models of Scott Seats.

SCOTT *Port-a-fold* **INC.**

SNYDER TANK CORPORATION

BLEACHER DIVISION

P. O. Box 14, Buffalo 5, New York



STEEL STANDS ARE...

SAFE

If you want to seat a hundred or many thousands, indoors or out, the *safest plan* is to consult Snyder first.

Snyder Steel Stands and Bleachers are all steel, with the exception of the seats and footboards. They are fabricated of structural-type steel to provide an extra margin of safety and long life and low maintenance costs.

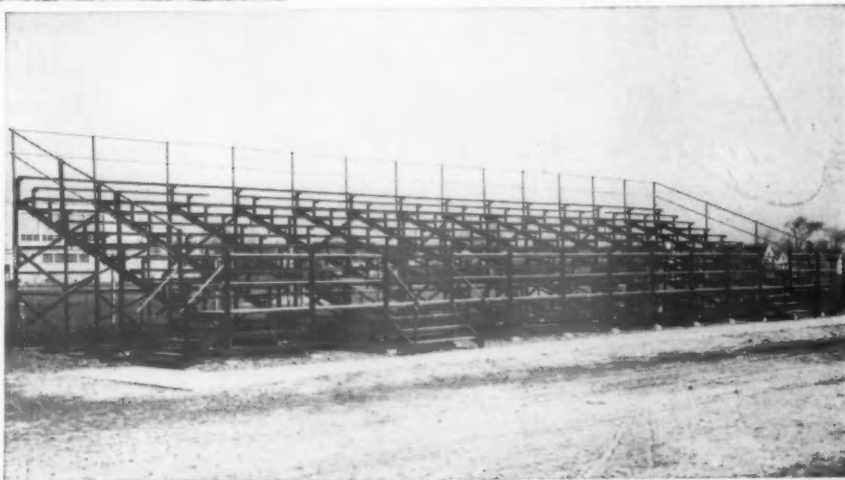
Snyder engineers will gladly help you plan your installations—no matter how large or how small.

PORTABLE • SECTIONAL

PERMANENT

INDOOR • OUTDOOR

Your fans can see better from a Snyder Stand . . . the reason is simple—more rise per row—better angle of visibility. Snyder stands are engineered and designed with a $12\frac{1}{2}\%$ greater rise per row than the standard of the industry.



Write for **FREE** copy
of our descriptive
Bleacher Catalog.



SNYDER TANK CORPORATION

BLEACHER DIVISION • P. O. BOX 14, BUFFALO 5, NEW YORK

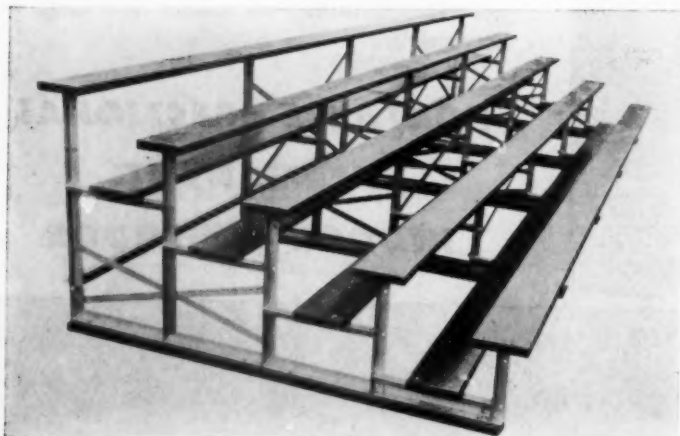
STANDARD STEEL AND SUPPLY COMPANY

Three Rivers, Mich.

*Specify
"Standard"*

FOR STRONG, SAFE, DURABLE
INDOOR or OUTDOOR SEATING

PERMANENT
PORTABLE
MOBILE
QUICK—
DEMOUNTABLE



All "Standard" Steel Bleachers and Grandstands have a framework of extra heavy structural steel, unit welded and rigidly cross-braced, for maximum load-carrying capacity and resistance to sway. This construction provides an extremely wide margin of safety. The units can be readily increased in both height and length. Aisles, elevated walkways, ramps, steps, etc., can be incorporated.

PERMANENT

Stock units or designed to suit specific conditions

PORTABLE

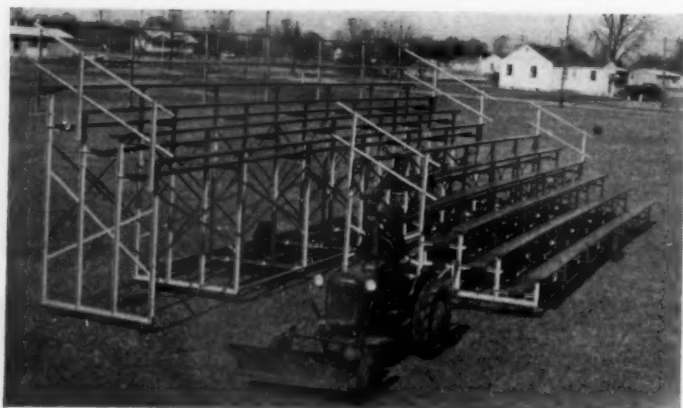
Independent sections—continuous runs—elevated or non-elevated

QUICK DEMOUNTABLE

Stock units and special lengths for stage and wall-to-wall installations

MOBILE

Multi-purpose seating — move without knockdown and reassembly—one pair of wheels—easily attached and detached—serves any number of sections—elevated and non-elevated



Write For Specifications

WAYNE IRON WORKS

Wayne, Pennsylvania

WAYNE



STANDARD MODEL 50—
Permanently installed along a wall.

ROLLING GYMSTANDS

Wayne Rolling Gymstands offers the gymnasium planner permanently installed gymnasium seating providing dual use of existing floor space. Every desirable feature looked for in gymnasium seating is incorporated in this product: rugged strength and an attractive appearance that fits beautifully into today's modern school plant; completely closed riser boards when stands are open; vertical front when closed. Hidden from general view, but all-important, is the famous Wayne engineering which insures smooth, efficient, easy, opening and closing, keeps stands in straight alignment, affords stability, eliminates side-sway, keeps stand free from friction and jamming.

REQUEST WAYNE'S ROLLING GYMSTAND CATALOG R-56



RECESSED MODEL 50-R—Permanently installed in a recess—or away from a wall.



MOVABLE MODEL 50-M—For use in a temporary location—not permanently anchored.



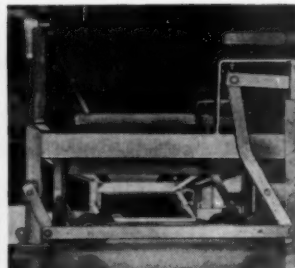
BALCONY MODELS 50S, 50X—Permanently installed in a balcony, where, for good visibility, special rise-per-row is a requirement.

WAYNE IRON WORKS

SAFE

Vertical Front

Wayne's completely vertical front forms an attractive gymnasium wall, providing gymnasium users with a protective wall that is architecturally correct, instead of a sloping front that tends to confuse athletes and throw them off balance.



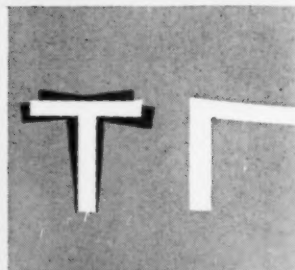
Strong Braking System

8 Self-locking rubber padded brakes give Wayne 400% more braking action... 4 times greater holding action. Automatically prevents movement in any direction.

COMFORTABLE

Ample Foot Room

Full 20" of foot space furnishes spectators ample foot ease. Fully closed back riser completely eliminates heel pinching or foot catching.



Sloping Seat

Wayne's slightly sloping seat position provides a comfortable seating position for spectators.

ATTRACTIVE

Philippine Mahogany

Handsome color and grain of this rich hardwood blend more favorably into any decorative scheme. Careful finishing insures long, attractive service life.



Closed Riser Boards

Closed riser boards completely close the vertical gap between seat and footboards. They are completely safe and present a far better appearance than conventional stands using open riser construction.

EASY OPERATION

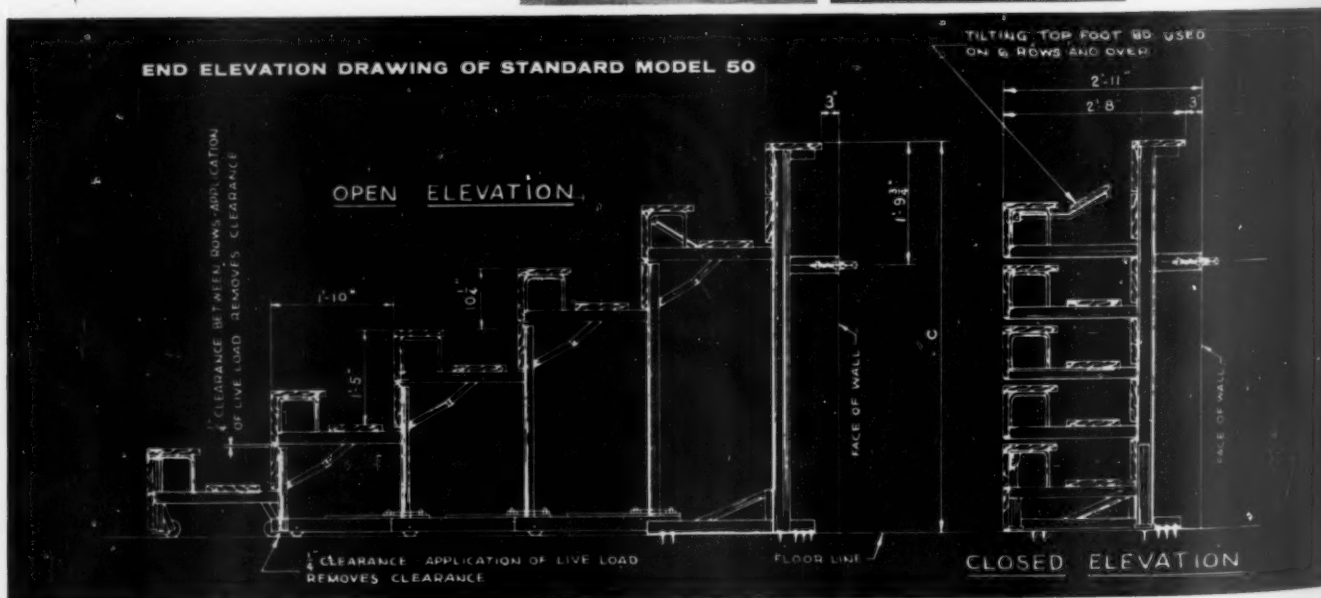
Opening and Closing

Wayne Rolling Gymstands, up to 14 rows, are opened and closed with ease and efficiency by one attendant.



Alignment Frames

Wayne's exclusive alignment frame assembly permits smooth, effortless straight line opening and closing. Operates with only 2 moving parts per row—less than any comparable seating in the industry.



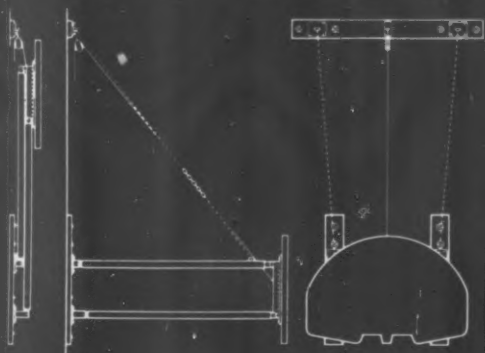
WAYNE IRON WORKS

WAYNE

BASKETBALL BACKSTOPS

THE WAYNE LINE

All Wayne Backstop Models are professionally engineered to high standards for complete safety, maximum rigidity and ease of operation. They are installed fully equipped with all essential hardware and are architecturally correct in every detail. Wayne Backstops conform to the official standards of the National Basketball Association.



FOLD-UP—WALL MOUNTED

MODEL 13—For use where the backstop assembly must retract to accommodate other gymnasium activity.



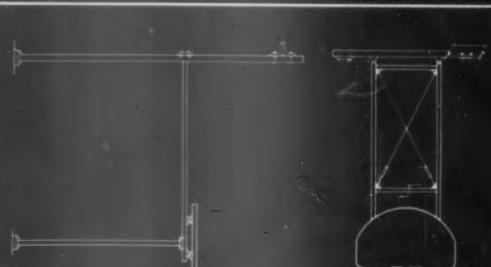
FOLD-UP—CEILING MOUNTED

MODEL 26—Recommended for use in front of a stage, over a balcony, or other area, where the overhead space will have multiple use.



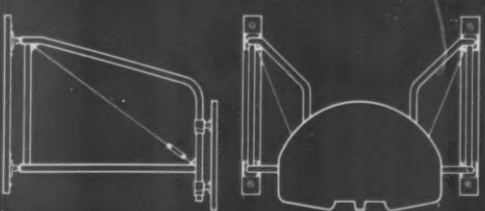
STATIONARY—WALL MOUNTED

MODEL 11—Recommended where a wall offers a strong support and the backstop will not be required to be moved for other activities.



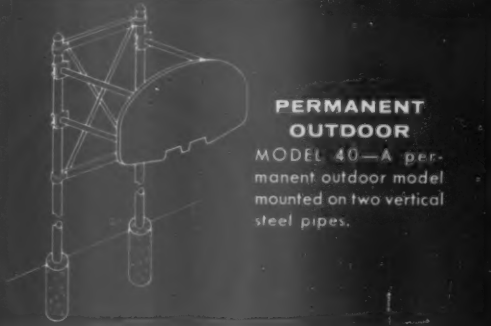
STATIONARY—WALL BRACED

MODEL 27—A permanent wall-braced model used where the backboard will be extended more than 8 feet from the wall.



GATE TYPE—WALL MOUNTED

MODEL 15—Recommended when the mounting must span a window, folding partition pocket or comparable building element.



PERMANENT OUTDOOR

MODEL 40—A permanent outdoor model mounted on two vertical steel pipes.



REQUEST WAYNE BASKETBALL BACKSTOP CATALOG
WAYNE IRON WORKS, WAYNE, PENNSYLVANIA

AMERICAN SCHOOL AND UNIVERSITY—1958-59

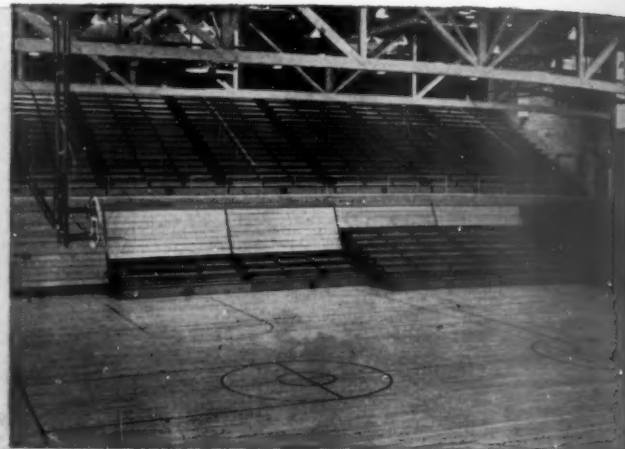
UNIVERSAL BLEACHER COMPANY

Champaign, Illinois

Planning a Gymnasium?

BEFORE making any definite decisions on building plans and gymnasium seating, be sure to contact one of the experienced *Universal* representatives listed below. He can show you how to...

...make each building dollar go much farther;



...reduce total gymnasium cubage, yet provide ample seating and maximum comfort;

...assure big savings on construction and heating costs.

Latest *Universal* catalog also free on request. Ask your nearest representative or write...

UNIVERSAL BLEACHER COMPANY • CHAMPAIGN, ILLINOIS

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LEADING PHYSICAL
EDUCATORS RECOMMEND
TRAMPOLINING and

NISSEN

TRAMPOLINES



Left to right, officers of National Gymnastics Clinic. LYLE WELSER, Gymnastic Coach, Georgia Tech University, Atlanta; FRANK CUMISKEY, member of 3 U. S. Olympic Gymnastic Teams; EDWARD J. SCROBE, Physical Education Department, Brooklyn, New York, School System; FRANK A. WELLS, Department of Recreation, Jersey City, New Jersey; THOMAS E. MALONEY, Gymnastic Coach, U. S. Military Academy, West Point: "The National Gymnastic Clinic endorses and recommends the Nissen Trampoline for all college and school use."



FRANK A. WOLCOTT, Instructor in Physical Education, Springfield College, Springfield, Mass.: "We feel that Trampolining is a valuable part of a physical education program. Nissen Trampolines have been used by all students of our school since 1947."



NEWT LOKEN, Gymnastic Coach, University of Michigan: "Nissen Trampolines are built to give long service, and the Flashfold principle makes it convenient for folding or unfolding anywhere, anytime. Wherever there is gymnastics, you should find Nissen Trampolines."



XAVIER LEONARD, Physical Education Instructor, King Junior High School, Los Angeles, Calif.; Guest Trampoline Instructor, California Polytechnical Physical Education Workshop, San Luis Obispo, Calif.: "When you have the best tools to work with, your job is much easier. That's the way I feel about teaching with Nissen Trampolines."



CHARLIE POND, Gymnastic Coach, University of Illinois, U. S. Gymnastic Judge, 1954 Olympics: "I would heartily recommend any school system or coach to obtain Nissen Trampolines. The precision workmanship, the continuous improvements that have been made, and the helpful Nissen service all go a long way toward the confidence I have in the products of Nissen Trampoline Company."



FRANK TURNER, Physical Education Instructor, Hertfordshire County Council Education Committee, Hertfordshire, England (Olympic Games 1948-52-56; British Individual Gymnastics Champion 4 times), shown above with Mrs. Edna Gross, British Gymnastics Team Representative at Olympic Games: "During my 25 years in gymnastics, I have had the pleasure of demonstrating Nissen Trampolines on numerous occasions. I urge all aspiring tumblers to use the Nissen Trampoline wherever possible. As a teacher, I can say that kids love Trampolining, too."

NISSEN TRAMPOLINE CO., CEDAR RAPIDS, IOWA, U.S.A.

NISSEN *Regulation*

Available in 3 Styles for all Grades, Elementary through College

CHAMPION (Nylon Web-Bed and Rubber Cables)

MILITARY (All Nylon Canvas Bed and Rubber Cables)

EDUCATOR (Cotton Canvas Bed and Steel Springs)

MEETS ALL SPECIFICATIONS FOR A.A.U. AND INTERCOLLEGIATE COMPETITION

Insist Upon These Exclusive NISSEN Construction Features and Advancements

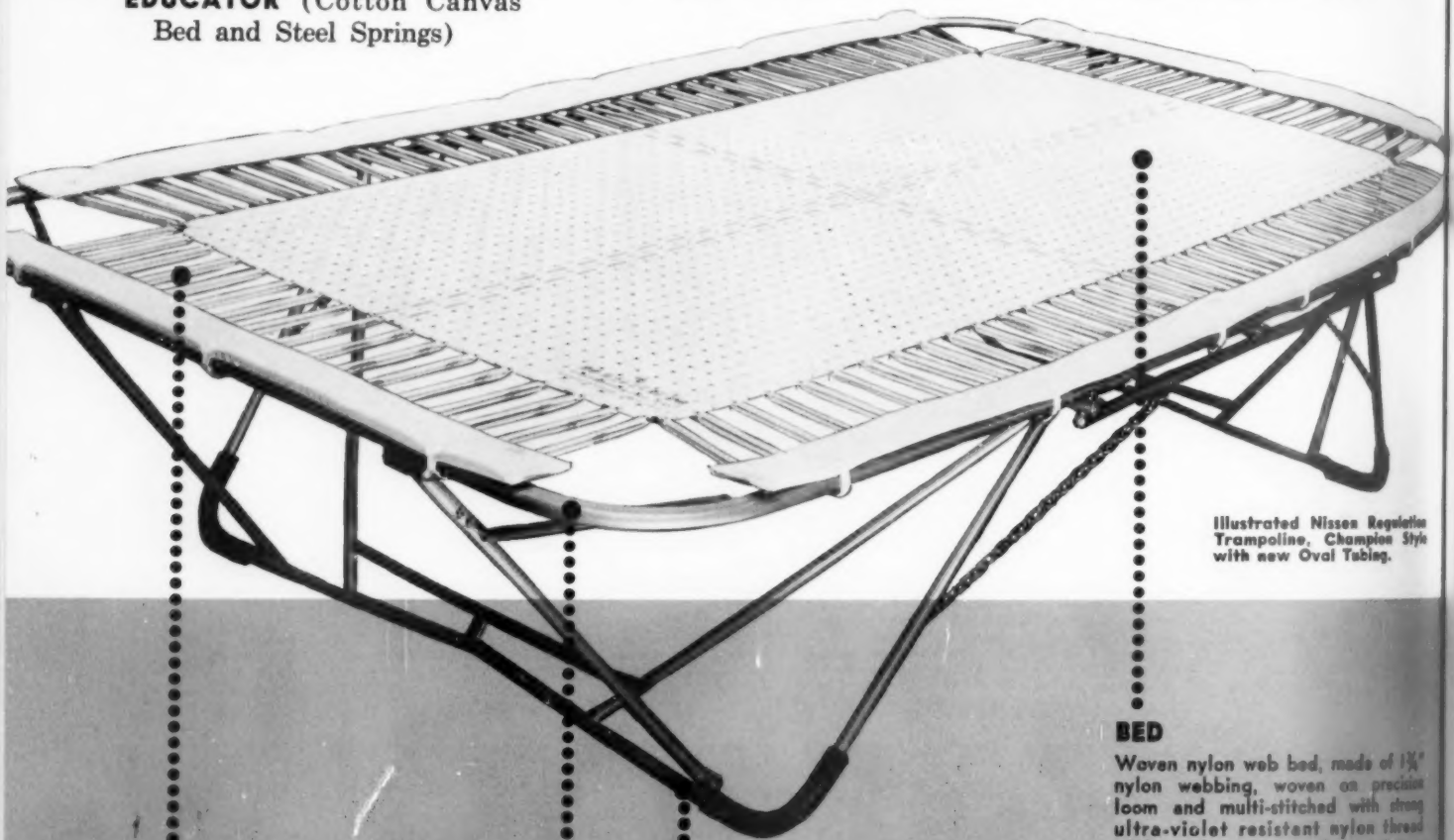
1. OVAL TUBING

2. CONVENIENT "HALF-FOLDING"

3. PHOSPHORIZED, PERMA-COATED FRAME FINISH

4. ADJUSTABLE TRAMPOLINE CABLES

5. WELDED INDIVIDUAL SPRING ANCHORS



Illustrated Nissen Regulation Trampoline, Champion Style with new Oval Tubing.

SUSPENSION SYSTEM (Champion Style)

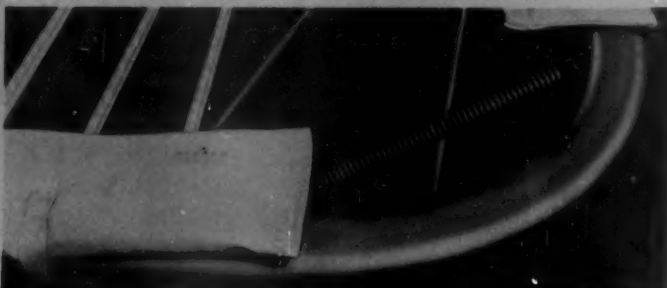
12" double strength adjustable rubber Trampoline cables with eye hooks on both ends for easy connection. Non-adjustable rubber Trampoline Cables also available.

LEGS

Legs have $\frac{5}{16}$ " protective rubber covering that extends 16" wide to give longer wear and provide maximum floor protection. Exclusive "V"-type leg and end support construction provides maximum strength and completely clear area under bed.

BED

Woven nylon web bed, made of $1\frac{3}{4}$ " nylon webbing, woven on precision loom and multi-stitched with strong ultra-violet resistant nylon thread while under tension of over 2 tons. Red center marker is woven into webbing for permanent identification. Extra reinforcement around the edges of the bed provide greater strength at all points where plated steel mooring bars are attached. Bars are looped for convenient hookup of suspension system. Also available with 1" nylon webbing.



FRAME — NEW OVAL TUBING

Frame is phosphorized, and prime-coated, then sprayed with aluminum perma-finish for maximum rust-resistance. Extra strength is achieved by exclusive new light-weight OVAL TUBING, thoroughly reinforced and braced. This advanced design assures maximum resistance to tension and better bouncing action. Provides more rigid base than any round tubing. Long life assured by new welded individual spring anchors.

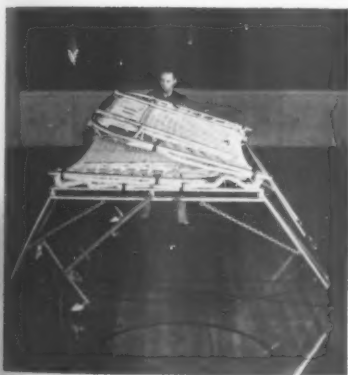
TRAMPOLINES

NISSEN TRAMPOLINES

have 2-Way

Folding Flexibility!

It is often desirable to fold the Trampoline "Half-way" for convenience. With Nissen Trampolines, this can be accomplished without use of roller stands, and by folding only the light-weight end rails. This is a special advantage for schools and other groups between classes. Nissen Regulation Trampolines can also be completely folded for easy storage. Exclusive Nissen Hidden Hinge principle permits folding and unfolding with both side and end frame pads in place. Heavy-duty roller stands with 5" ball bearing casters.



THIS IS "HALF-FOLDING" — made possible by superior Nissen construction.



THIS IS COMPLETE FOLDING — One man can fold the Nissen Trampoline completely in one minute!

SPECIFICATIONS

77-A REGULATION TRAMPOLINE

CHAMPION STYLE					
UNIT NO.		WEIGHT	DESCRIPTION AND MEASUREMENTS	PARTS PRICE	COMPLETE UNIT PRICE
RC1	PARTS: Frame & Roller Stands	307 lbs.	Open 9' x 15' x 39" high. When folded 5'6" x 9' x 9"	\$274.00	
RC2	Bed	30 lbs.	T-8N Woven Nylon Web-Bed 6' x 12', 1 3/4" nylon webbing**	136.00	
RC3	Suspension System	23 lbs.	Adjustable Rubber Trampoline Cables (set of 100). Non-adjustable type also available**	77.00	
77-AR	REGULATION TRAMPOLINE (Complete)	360 lbs.	CHAMPION STYLE		\$539.00
UNIT NO.	ACCESSORIES: (Optional)	WEIGHT	DESCRIPTION AND MEASUREMENTS	PARTS PRICE	COMPLETE UNIT PRICE
RA4	Frame Pads** (Complete set of 6)	23 lbs.	6" x 6'6" each pad	\$66.00	
RA2	Frame Pads** (set of 2)	8 lbs.	6" x 6'6" each pad	22.00	
RA5	Weather Cover	19 lbs.	For outdoor protection	36.00	

MILITARY STYLE					
UNIT NO.		WEIGHT	DESCRIPTION AND MEASUREMENTS	PARTS PRICE	COMPLETE UNIT PRICE
RM1	PARTS: Frame & Roller Stands	307 lbs.	Same as Champion	\$274.00	
RM2	Bed	18 lbs.	All-Nylon Canvas Bed, 6' x 12' or Cotton Woven Web Bed when specified**	120.00	
RM3	Suspension System	23 lbs.	Adjustable Rubber Trampoline Cables (set of 100) 12" double loops. Non-adjustable type also available**	77.00	
77-AM	REGULATION TRAMPOLINE (Complete)	348 lbs.	MILITARY STYLE		\$471.00*
(ACCESSORIES SAME AS CHAMPION STYLE)					

EDUCATOR STYLE					
UNIT NO.		WEIGHT	DESCRIPTION AND MEASUREMENTS	PARTS PRICE	COMPLETE UNIT PRICE
RE1	PARTS: Frame & Roller Stands	307 lbs.	Same as Champion	\$274.00	
RE2	Bed	35 lbs.	Heavy Duty Cotton Canvas Bed 6' x 12"***	88.00	
RE3	Suspension System	65 lbs.	Steel Springs (D-15-A) (1 set of 100) 9" long x 1 1/8" diameter**	33.00	
77-AE	REGULATION TRAMPOLINE (Complete)	407 lbs.	EDUCATOR STYLE		\$395.00
(ACCESSORIES SAME STYLE AS CHAMPION STYLE)					

*May be ordered with springs (Item No. RS) if desired, at \$44.00 less than cost of cables (Complete Price \$427.00).

**Will fit any Regulation Nissen Trampoline, including models 1000-T, 5000-T, 549-T and 77.

WHEN ORDERING PARTS, PLEASE INDICATE FRAME NUMBER.

All Prices F. O. B. Factory, Cedar Rapids, Iowa, U. S. A.

NISSEN *Little Giant* TRAMPOLINE



Flashfold principle makes it easy to keep the Little Giant Trampoline out of the way when not in use.

For ELEMENTARY and JUNIOR HIGH SCHOOLS

This is the popular medium-sized Nissen Trampoline that delivers standard performance for physical education programs of elementary and junior high schools. The younger set can enjoy the happy fun of "just bouncing" while learning the important

fundamentals of body and muscular coordination. Frame is heavy-duty 11 gauge tubular steel. Canvas bed and nylon moorings combine lightness and lasting strength. Legs are rubber-shod. Perfectly balanced to give sure, steady performance.

SPECIFICATIONS

UNIT NO.	LITTLE GIANT TRAMPOLINE	WEIGHT	MEASUREMENTS	PARTS PRICE	COMPLETE UNIT PRICE
L1	PARTS: Frame	175 lbs.	Open, ready for use, 12' x 7' x 32". When folded, 5' x 7' x 8"	\$119.00	
L2	Cotton Canvas Bed	22 lbs.	56" x 114" ring to ring	54.00	
L3	*Springs (set of 78)	49 lbs.	9" x 1 1/4"	25.00	
LG	LITTLE GIANT TRAMPOLINE (Complete)	246 lbs.			\$198.00
LGA	Complete with All Nylon Canvas Bed				216.00
LGB	Complete with Woven Nylon Web Bed				254.00
LA4	ACCESSORIES: (Optional) Frame Pads (set of 6)	14 lbs.	6 pads, 67" x 5" ea.	35.00	
LA6	Roller Stands	21 lbs.	For easier moving and storage	30.00	
LA5	Weather Cover	16 lbs.	For outdoor protection	35.00	

*Adjustable rubber Trampoline cables may be ordered in lieu of springs, at \$60.00. (set of 78 cables, complete)

All Prices F. O. B. Factory, Cedar Rapids, Iowa, U. S. A.

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Branch Offices and Factories:
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Gümligen, (Berne) Switzerland

ALL-AMERICAN SCOREBOARD CORPORATION

271 Madison Avenue, New York, N. Y.

WORLD'S GREATEST BASKETBALL SCOREBOARD!!



THE NEW **Thunderbolt***

A complete line of quality scoreboards to fit every size gym or stadium . . . every budget . . . every requirement! Engineered by world-famous designers! Specially built for the color—the excitement—the speed of today's game! Modern designs to compliment any new gym or stadium decor!

Specifications for 8 different models (including the Thunderbolt):*

SPECIFICATIONS	FOOTBALL				BASKETBALL			BASEBALL
	FB-58-VU	FB-58-SU	FB-58-DU	FB-58-AU	W-600U	T-611U*	A-610U	B-311U
Overall Size	18' x 12'	18' x 12'	18' x 12'	18' x 12'	6' 10" x 3' 2"	8' x 2' 6"	13' x 4'	18' x 7'
Timer Size	8'	8'	8'	8'	36"	12"	2'	2'
Humeral Size	2'	2'	2'	2'	1'	1'	2'	2'
Construction	Steel	Steel	Steel	Steel	Royalite	Steel	Steel	Steel
Finish	Black	Black	Black	Black	Grey	Multi-Color	Black	Black
Visibility	1000'	1000'	1000'	1000'	450'	450'	600'	1000'
Illumination	25 watt	25 watt	25 watt	25 watt	7 1/2 watt	7 1/2 watt	15 watt	25 watt
Remote Control	Push-Button	Push-Button	Push-Button	Push-Button	Push-Button	Push-Button	Adding Machine	Push-Button
Maintenance	C-PAK	C-PAK	C-PAK	C-PAK	C-PAK	C-PAK	COL	C-PAK
Installation	Pre-fab	Pre-fab	Pre-fab	Pre-fab	4 Bolts	4 Bolts	4 Bolts	Pre-fab
Conductors								
Control Cable	5	10	12	12	10	10	108	10
Electric Service	110 AC	110 AC	110 AC	110 AC	110 AC	110 AC	110 AC	110 AC
Guarantee	1 year	1 year	1 year	1 year	1 year	1 year	1 year	1 year
Shipping Weight	1075 lbs.	1085 lbs.	1095 lbs.	1105 lbs.	85 lbs.	170 lbs.	590 lbs.	610 lbs.

Custom scoreboards built for all sports!

All-American scoreboards are used in: Yankee Stadium, Cleveland Municipal Stadium, Notre Dame, Polo Grounds, West Point, Madison Square Garden, Comiskey Park, Griffith Stadium, Crosley Field, Minneapolis Stadium, Georgia Tech and hundreds of other major arenas and stadiums.

All-American SCOREBOARD CORPORATION Builders of the world's largest scoreboards

AMERICAN SCHOOL AND UNIVERSITY—1958-59

THE M. D. BROWN COMPANY

2213 Lake St., Niles, Michigan



FOOTBALL SCOREBOARDS

NEVER KEEP SPECTATORS OR PLAYERS "IN THE DARK"



Widely used in both large and small stadii across the country, the Scoremaster 1250-2 combines extreme accuracy and amazing distance visibility with fast, simple, dependable operation and handsome, colorful design.

Brilliant numbergrams on bright red timer area (balance of board is green) flash time left to play in seconds and minutes. Timing mechanism completely automatic—can be stopped instantly for time-outs. Times any length period; rapidly reset.

Large football symbols show possession of ball. Entire board controlled from any location by two compact, easy-to-operate panels. All-steel construction, baked enamel finish.

DIMENSIONS

Overall Size	8'4" x 18'4"
Numbergrams	12" x 18"
Football Symbols	18" x 12"
Letters	12" High

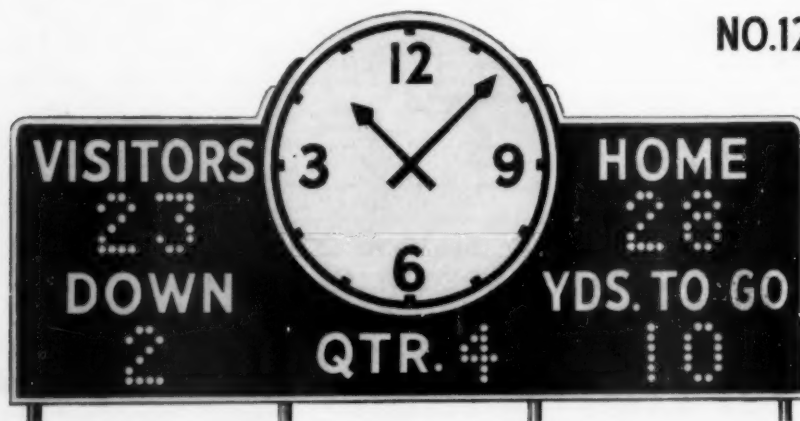
NO.1250-GIANT CLOCK MODEL

Similar in every respect to 1250-2 except it offers dial-type timing and does not have football symbols. Giant electric clock with 7' dial is available with either 12 or 15 minute dial. Clock can be stopped instantly for time-outs and stops automatically at end of play period.

DIMENSIONS

Overall Size	8'4" x 18'4"
Clock Numerals	14" High
Letters	12" High
Numbergrams	12" x 18"

OTHER MODELS PLUS CUSTOM-MADE BOARDS
FOR SPECIAL INSTALLATIONS



THE M. D. BROWN COMPANY



BASKETBALL SCOREBOARDS

WHEN SPLIT-SECONDS COUNT, COUNT ON SCOREMASTER



MODEL 250-6, MOST POPULAR BOARD MADE

Rapidly becoming most widely used board and timer. 45 were shipped to Germany for use in U. S. Forces gyms in Europe.

Fast, accurate, maximum adaptability and flexibility. Completely automatic, perfectly synchronized. Low initial cost, minimum maintenance. Overall size, 72" x 34" x 6" deep. Letters 5" high. Numbergrams 6 1/2" x 10" high. Vibrator-type horn, translucent name panels. Also available with No. 3420 foul lineup panels and official identification.

THE "MIGHTY MITE," MODEL 253-4

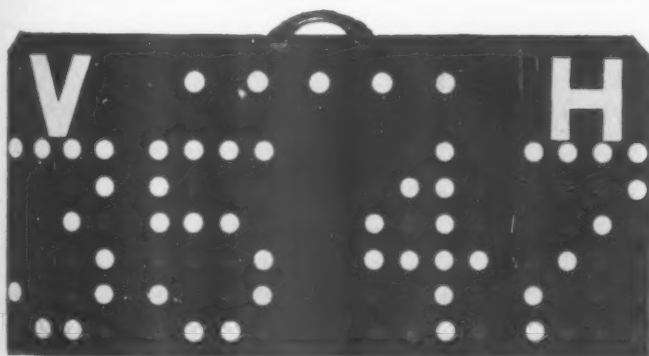
Board has dial-type timer with plug-in clock mechanism, four large illuminated quarter indicators, numerals from 0 to 99 on each pair of numbergrams with progressive type switching. Numbergrams 10" x 6 1/2". Vibrator horn. Toggle

switch control panel. Board is 50" x 32" x 6" deep. Dial 25" in diameter with large numbers. All-steel welded angle iron frame; 20 gauge sheet steel face. Baked enamel finish.



NEW!—THE SPORTSMASTER S-500

Designed especially for all types of intramural activity involving scoring. May also be used in conjunction with other Scoremaster basketball boards to record individual and accumulative team fouls. Invaluable to officials and players alike. Available with or without 8" electric timer. New button-type plastic lenses give readability to less than 5 degree angle and at distances to 200 feet. Completely portable. Only 24 1/2" x 10 1/2" x 5". Weighs 18 pounds.



FOR COACHES—REVOLUTIONARY "COACHMASTER"

An electronic device which enables a coach to be in constant, confidential contact with as many as 18 players on his bench while play is in progress. Completely portable. Write for complete details.

Write for free literature, specifications and prices to

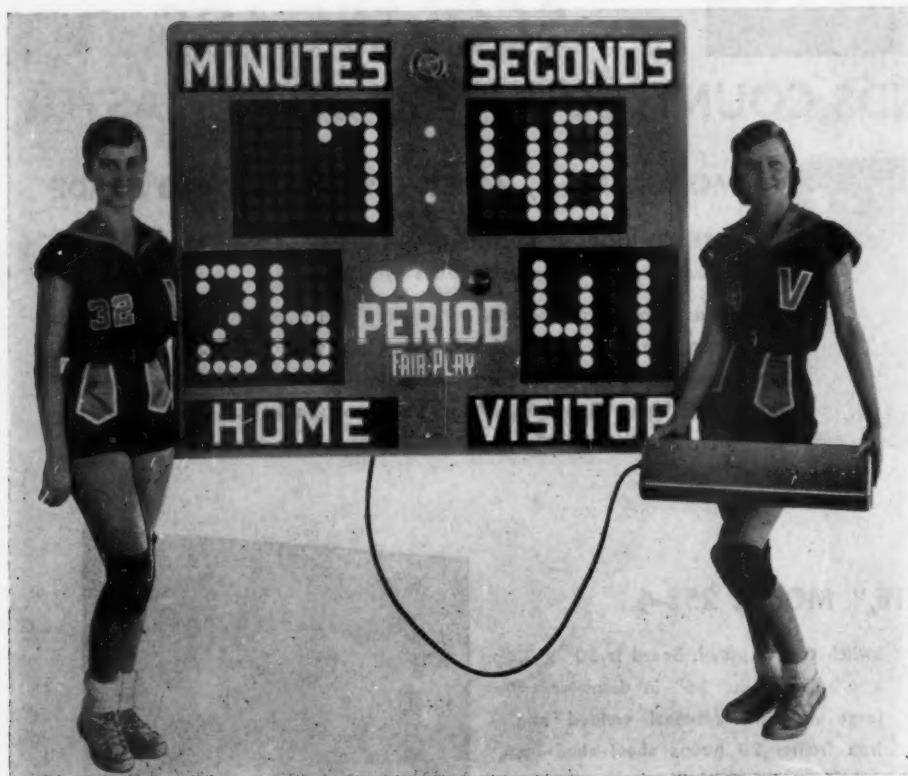
M. D. BROWN CO.

2213 Lake St.

Niles, Michigan

FAIR-PLAY MFG. CO.

Manufacturers of Electric Scoreboards and Timers
1708 Delaware Ave., Des Moines, Iowa



FAIR-PLAY

FF-1S

BASKETBALL SCOREBOARDS

Here's the world's most popular basketball scoreboard—Fair-Play FF-1S—with famous TICKAWAY flashing numeral clock that shows exact number of minutes and seconds remaining to be played.

Sturdy, all-aluminum alloy cabinet, fully enclosed with no exposed wiring. Non-glare, baked enamel finish. Choice of colors: gray, red, green, blue, and black.

Accurate, dependable, easy to install. All service from front of board with plug-in relays and Clock Pak.

The World's Most Popular Basketball Scoreboard!

Fair-Play scoreboards come ready to operate and installation is simple. Brackets and eye bolts furnished for attaching to wall or suspending.

Choice of 9" or 12" numbers. Scoreboard with 9" numbers legible from 200 feet; measures 5' long x 3' 5" high x 6½" deep; weighs under 100 lbs. Scoreboard with 12" numbers is 5' long x 4' high x 6½" deep; weighs 100 lbs.

Number banks are made with seven lights vertical, four horizontal—to form most legible, block-type numbers. Numbers are formed on red plastic for greater visibility at sharp angles. (Score numbers may be green on special order; but red shows up best.) Numbers formed by 25 low-voltage lights; no bare sockets carrying high voltage as found in some scoreboards. Insist on low voltage for safety and economy.

Words MINUTES, SECONDS, HOME and VISITOR on backlighted plastic are removable. School or team name

may be substituted for HOME at small extra cost; GUESTS instead of VISITOR available at no extra cost.

Period of game is indicated by four vari-colored 3" lenses.

New loud Banshee Buzzer mounted on board now standard. Super-special resonating Federal No. 55 horn available at extra cost. Extra horn may be attached at control. Clock stops automatically and sounds horn. Horn can also be sounded at will.

Scoreboard controlled by light-weight, single-piece pressed aluminum panel with baked enamel finish. Designed to accommodate one or two operators. Ten-foot cable attached, more if specified. Control panel features push-button progressive scoring for rapid corrections. Clock is quickly reset by button for new periods or overtimes.

Write for details on other Fair-Play basketball scoreboards.

FF-1S PRICES

FF-1S—9" Numbers **\$465.00**
includes control, 10' cable, time out clock.

FF-1S-D—12" Numbers **\$515.00**
includes control, 10' cable, time out clock.

Additional Control Cable, per foot **35c**

AMERICAN SCHOOL AND UNIVERSITY—1958-59

Basketball Scoreboard Department

FAIR-PLAY MFG. CO.

(All Prices F.O.B.)

Box 359

Des Moines 2, Iowa

FAIR-PLAY MFG. CO.

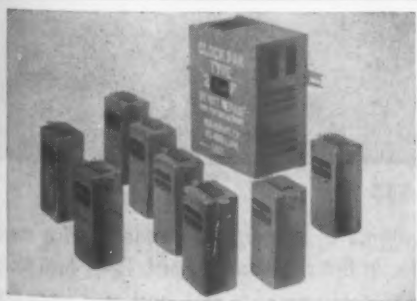


FAIR-PLAY FOOTBALL SCOREBOARDS

Add Showmanship to your games!



FB-50-A2—From the Rose Bowl to Valley High School, Fair-Play adds spectator appeal to the game. Here's one of the best-known football scoreboards. Big . . . durable . . . beautiful. Write for details of this outstanding scoreboard.



RELAYS, CLOCK PAK—All functional units are enclosed in metal containers for protection and safety. Easily unplugged from front of board, these packaged units are interchangeable in all Fair-Play football and basketball boards. Famous Ledex rotary solenoids actuate stepping relays, assuring speed, accuracy and dependability.

The ultimate in versatility, the big FB-33-C Fair-Play scoreboard above comes in two sections and is adaptable for basketball and baseball—even though it is basically a football scoreboard.

One of the neatest, most attractive scoreboards made, the FB-33-C—like all Fair-Play scoreboards—has a beautifully painted, all-aluminum, fully-enclosed cabinet.

Here's a dependable, accurate scoreboard that will add showmanship and spectator appeal to your games at low cost! Overall size is 18' x 7', without gift plaque at bottom. Big, easy-to-read 24" number banks. Adaptable to day or night use. Famous Fair-Play TICKAWAY CLOCK. Standard colors are Forest Green, Black, and White. May be painted to your specifications at extra cost.

ALL FAIR-PLAY FOOTBALL SCOREBOARDS HAVE TELEPHONE DIAL CONTROL FOR DOWN AND YARDS-TO-GO INFORMATION

Write for Details, Specifications, and
Big, Full-Color Reproductions

FAIR-PLAY MFG. CO.

Football Scoreboard Department

Box 359

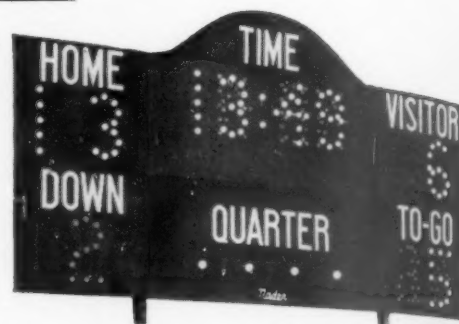
Des Moines 2, Iowa

NADEN INDUSTRIES

505 Fair Avenue, Webster City, Iowa
MANUFACTURERS OF DEPENDABLE ELECTRIC SCOREBOARDS

FOOTBALL SCOREBOARDS

The most popular football scoreboards in America. Priced delivered and installed. Super accurate timing, "color keyed" round style numerals for easier reading, lifetime all aluminum weather proof construction, and attractive baked wrinkle enamel finish. The N-400-IV features the famous "Instant-Vue" timing powered with a synchronous motor and designed so it cannot skip minutes or seconds. Available also in the N-400-D with dial timer.



MODEL N-400 IV

ALL NADEN SCOREBOARDS ARE GUARANTEED FOR TWO YEARS



BASKETBALL SCOREBOARDS

There is a Naden basketball scoreboard engineered for your gym or field house. Two and four sided styles as well as synchronized models are available. Foremost among these models is the N-595 featuring Naden "Instant-Vue" timing and score numerals for faster, easier reading. Automatic reset, signal lights, and vibratory horn standard. Louder resonating horn available at additional charge. A truly deluxe scoreboard—a welcome addition to any gym.



MODEL N-595



MODEL N-525

Lowest priced completely automatic scoreboard on the market. Simple design gives the utmost in dependability. Such deluxe features as automatic stop and vibratory horn standard. Heavy gauge steel cabinet with baked enamel finish. Available in 8, 10, or 20 minute periods. Ideal for small gyms, Y.M.C.A., etc.



MODEL N-555

Big scoreboard features at a small scoreboard price make this the value leader in the scoreboard field. 12-1/2 inch score numerals, automatic reset, automatic stop and horn, large dial timer, aluminum cabinet and baked enamel finish. Shipped ready to operate after simple installation. Available in 8, 10, or 20 minute period.

Write For More Complete Information

AMERICAN SCHOOL AND UNIVERSITY—1958-59

M. DUCOMMUN COMPANY

G 723

SPECIALISTS IN TIMING INSTRUMENTS SINCE 1858 • ALL MAKES REPAIRED

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Minerva Unbreakable "Coil Spring" Mechanism PRECISION TIMING INSTRUMENTS



Tenth Second Timer

Close Timing—Track Events. The long hand indicates tenths of seconds and completes one turn in 30 seconds. The small hand registers up to 15 minutes. Start-stop-flyback to zero by successive depressions of crown. Non-magnetic, 7 jewel, lever movement. Nickel chrome case.

No. 135—List Price \$30.40



Tenth Second "Time Out"

For track events and industrial use. The long hand indicates tenths of seconds and completes one turn in 30 seconds. The small hand registers up to 15 minutes. Start, stop, start by depressing the crown. Flyback to zero by depressing pin on the side of the case. Non-magnetic, 7 jewel, lever movement. Nickel chrome case.

No. 136—List Price \$31.50

No. 136L—Giant Size List Price \$34.00



Official AAU Model—Tenth Second (Double Action)

Both long hands indicate tenths of seconds and perform one turn in 30 seconds. The small hand registers up to 15 minutes. Start-stop-flyback to zero by successive depressions of crown. Split second hand stops—catches the other hand when depressing push-piece. Non-magnetic, 11 jewel, high-grade movement. Nickel chrome case.

No. 220—List Price \$77.50

No. 137—9 Jewel List Price \$63.00

No. 220A—9 Jewel and Time Out—

100th Anniversary Catalog
covering America's largest selection of timing instruments yours for the asking.



Giant Master Track Timer—Tenth Second

The long hand indicates tenths of seconds and seconds, and completes one turn of the dial in 10 seconds. The small hand registers up to 5 minutes. Start-stop-flyback to zero by successive depression of crown. Non-magnetic, 7 jewel, lever movement. Nickel chrome trim. Also in black dial with white figures.

No. 140L—List Price \$33.00

No. 140 Standard Size List Price \$31.00



Fifth-Second "Time Out", Noiseless

Recommended for typing and steno tests—psychology test,—and for timing games when interruptions may occur. Long hand indicates fifths of seconds and completes one turn of the dial in 60 seconds. Small hand registers up to 30 minutes. Start-stop by moving side slide. Flyback to zero by crown pressure. Non-magnetic, 7 jewel, lever movement. Nickel chrome case.

No. 105P—List Price \$30.00



Precision Double Action—Tenth Second

Both long hands indicate tenths of seconds and seconds, and complete one turn of the dial in 10 seconds. The small hand registers up to 5 minutes. Start-stop-flyback to zero by successive depressions of crown. Split-second hand stops—catches the other hand when depressing push-piece. Non-magnetic, 9 jewel, lever movement. Nickel chromium finished case.

No. 141D—List Price \$66.00

No. 140D Standard Size List Price \$63.00

Lifetime Guarantee against "Coil" breakage or wear. • **10-Day Free Trial** to test timer under your own conditions.
30% Discount on all school orders

CROUSE-HINDS COMPANY

Syracuse 1, N. Y.



**Brighten up your
attendance totals...**



Type FLA
Just One of Many Dozens of
Crouse-Hinds Floodlights
Available for Illumination at:

- ARCHERY RANGES
- BADMINTON COURTS
- BASEBALL DIAMONDS
- BASKETBALL COURTS
(Indoor & Outdoor)
- BOWLING ALLEYS
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(Indoor & Outdoor)
- FOOTBALL FIELDS
(6- or 11-man)
- GOLF RANGES & PUTTING GREENS
- GYMNASIUMS
- HANDBALL COURTS
- HOCKEY RINKS or FIELDS
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- LACROSSE FIELDS
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- PLAYGROUNDS
- SKATING AREAS
- SKI SLOPES
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- SOFTBALL DIAMONDS
- SWIMMING POOLS
(Indoor & Outdoor)
- TENNIS COURTS
- TRACK & FIELD LAYOUTS
- TRAP & SKEET SHOOTING
- VOLLEYBALL COURTS

with Crouse-Hinds SPORTSLIGHTING

It follows as night the day that good lighting encourages attendance at after-dark sports events. Improper or inadequate lighting discourages it.

There's no squinting—from lack of illumination OR from glare—when Crouse-Hinds lights the play! Everyone can see: players, officials, coaches and spectators.

Better play, longer practice time, increased school spirit, better attendance . . . these are just a few of the dividends possible with Crouse-Hinds floodlighting.

Lighting for Participator Sports. Durable, high-efficiency illumination at economical cost is required by thrifty administrators for participator sports, too. Whatever student sports facilities are provided by your school (see check-list on this page), Crouse-Hinds will light them properly and at reasonable cost.

The entire job of planning your installations to the smallest detail is performed by our lighting engineers. Just send a map of your field, court, pool or stadium . . . or write us to send a field engineer to your office for consultation. He will show you how better floodlighting pays its own way!

FREE "Night Time Is Play Time", a 76-page illustrated booklet (Bulletin 2605), describing Crouse-Hinds sports-lighting layouts for more than 45 indoor and outdoor sports.



CROUSE-HINDS COMPANY

Main Office and Factory: Syracuse, N. Y.

Crouse-Hinds Company of Canada, Ltd.: Toronto, Ont.

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GENERAL ELECTRIC COMPANY

Outdoor Lighting Department

Hendersonville, N. C.

New L-69A floodlights give more light, Cut installation and maintenance costs

You can provide your athletic field with modern, high-quality floodlighting by installing General Electric's new L-69A floodlights. This modern-day improvement in sports lighting produces more light per unit, more beam lumens per watt, and higher uniform beam candlepower—and helps cut installation and maintenance costs.



Successor to the highly popular General Electric L-69, now used in eight major-league baseball stadiums, the L-69A is sturdily built of die-cast and spun aluminum, yet is lightweight (only 17 pounds). Its shatter-resistant glass covering is spun-on, excluding water, dirt, and insects.

Because of its flexibility of applications, the L-69A adapts itself readily to any type of sports area lighting. In addition to baseball and football fields, a great many schools and communities are floodlighting playgrounds, general sports fields, and other recreational facilities for night use. Experience shows that baseball and football stadiums using floodlighting for night games have increased attendance and gate receipts to an all-time high. Those communities floodlighting recreational centers have found they can cut expenses for crime prevention and curtail juvenile delinquency.

Join today with other progressive schools and communities by floodlighting your athletic fields and recreational areas, and get full utilization from your investment.

For additional information, write General Electric Co., Section 640-478, 1 River Rd., Schenectady 5, N. Y. for Bulletin GEA-6435, "The New L-69A Floodlight."

WHY THE L-69A IS YOUR BEST FLOODLIGHT BUY

- More Light
- Lightweight
- Sturdy Construction
- Easy Installation
- Lower Maintenance Costs



Consult your phone book for the name of your nearest General Electric Floodlight Distributor.

Progress Is Our Most Important Product

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**HTH
GRANULAR**



**HTH
TABLETS**



Positive sanitation is of prime and constant importance to schools and universities everywhere—particularly in connection with swimming pools, gymnasiums and locker rooms. For such a wide variety of sanitary requirements HTH Granular is a convenient and reliable source of chlorine. A dry, granular, free-flowing, readily-soluble product, HTH Granular contains 70% available chlorine and will retain that strength through long periods of storage. The convenient easy-to-handle 5-lb. cans of HTH Granular are packed nine to the case; also available in 100-lb. drums.

For Swimming Pools

For the continuous or periodic chlorination of swimming pool water, HTH Granular offers the advantages of dependability, simplicity and low first-cost of chlorinating equipment.

In addition to keeping the pool water safe, HTH Granular is recommended for use in a coordinated entrance-to-exit sanitation routine to keep locker rooms, footbaths, toilets, runways and other pool surroundings safe and sanitary. A valuable manual, "Keeping the Pool Safe and Sanitary," is available upon request, without cost or obligation.

HTH, AD-DRI and LO-BAX are registered trademarks

AMERICAN SCHOOL AND UNIVERSITY—1958-59

HTH is also available in the convenient HTH Tablet form. HTH Tablets (with 70% available chlorine) dissolve slowly and provide a continuous source of available chlorine, over an extended period of time. HTH Tablets are packed in 100-lb. steel drums and in cases of twelve 3 3/4-lb. cans.

For your protection every genuine HTH Tablet is stamped HTH.



OTHER MATHIESON PRODUCTS

AD-DRI BLEACH

Here is a revolutionary new product for the laundry industry. Ad-Dri Bleach, the all new bleach, is especially formulated for dry addition to the washer. Its use eliminates the fuss and bother of "do-it-yourself" bleach solutions. No more handling of heavy carboys, no more spillage, no dangerous breakage. For maximum whiteness retention plus minimum tensile strength loss, for controlled bleaching, for all-around convenience and economy, Ad-Dri Bleach is tops. Available in 100-lb. drums.

HTH-15—An all-purpose germicide and deodorant which is ideal for use in school kitchens, dormitories, camps, etc. Containing 15% available chlorine, HTH-15 is also highly useful as a china dip for the removal of stains from dishes and chinaware.

LO-BAX SPECIAL—A convenient chlorine carrier packed in handy bottles and containing 50% available chlorine. For preparing footbath solutions and for use around shower and locker rooms where small quantities of hypochlorite are required.

PH-PLUS—Restores the alkalinity which pool water may lose, especially when cylinder chlorine is used for disinfection—eliminates the acidity that makes eyes smart—makes purification more effective and residual chlorine less noticeable. Made in convenient, fused 1/2-lb. cakes, packed in 50-lb. and 100-lb. burlap bags.

GAME-TIME, INC.

Wholly Owned Subsidiary of Simpson Mfg. Co.
212 Jonesville Road, Litchfield, Michigan



PLAYGROUND EQUIPMENT

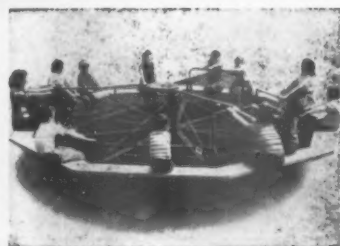
Maximum Safety • Extreme Durability • Ease of Installation



Designed in cooperation with recognized authorities on Safety, Recreation, Play Guidance and Physical Education.

Because of superior quality, advanced safety features, ease and economy of installation and unconditional guarantee, Game-Time Playground Devices have become the Standard of Comparison.

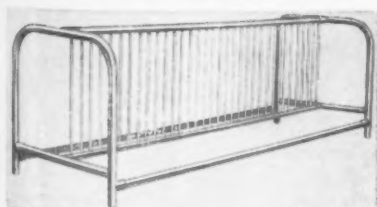
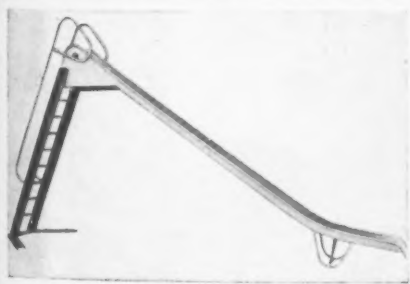
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Game-Time offers you a Planning and Layout Service to help you make the most efficient and economical use of available facilities, whether already in existence or to be constructed.

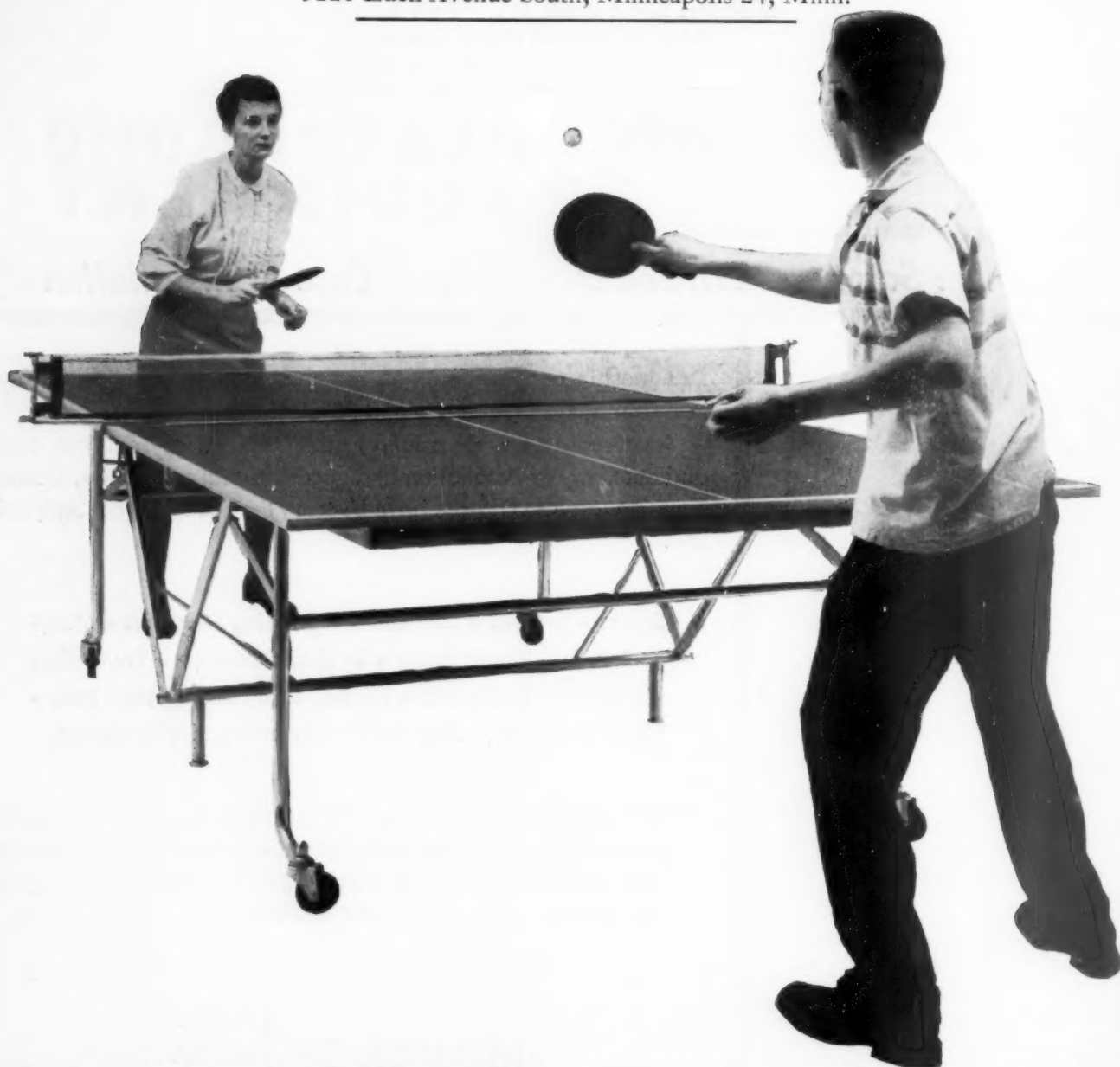
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If you have not already received our 38-page 1958 catalog please request one today.



SICO MANUFACTURING COMPANY, INC.

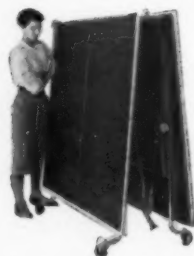
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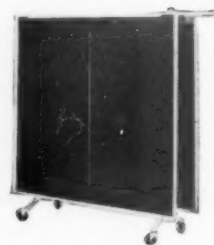
THE PORTABLE SICO **TUCK-AWAY**...MAKES ANY ROOM A GAME ROOM



A Husky Tournament Table—USTTA approved— $\frac{3}{4}$ " top—flat green with white court lines—rugged electric arc welded 14 gauge structural steel frame.



That a child can fold...In three seconds—No catches, latches or locks. Tops adjustable to allow safe handling by children. Exclusive Sico "floating fold" carries table weight. Works quickly, smoothly—without slamming or scraping floors.



and roll away to store in 18" wide area . . . Stores in floor area only 18" x 60"—can be rolled anywhere on 3 in. rubber casters. Leaves playing area open to many other uses—yet can be set up again in seconds.

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Multi-Clean Products, Inc.	H-1/Mu
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Cassidy Products, Inc.	H 802
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General Floorcraft, Inc.	H 804
Hild Floor Machine Company	H 805
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The Kent Company, Inc.	H 807
Walter G. Legge Company, Inc.	H 808
Louisville Ladder Company	H 809
The Spencer Turbine Company	H 810
United Floor Machine Company, Inc.	H 811

2. Waste Receptacles

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National Vulcanized Fibre Co.	H 814
United Metal Cabinet Corp.	H 813
John Wood Company, Superior Metalware Division	H 815

3. Fencing

Anchor Fence Division, Anchor Post Products, Inc.	H 816
The Colorado Fuel and Iron Corporation, Wickwire Spencer Steel Div.	H 817
Continental Steel Corporation	H 818
Cross Fence Co.	H 819
Cyclone Fence Department, American Steel & Wire Division, United States Steel Corporation	H 820

4. Grounds Maintenance

Worthington Mower Company	H-4/Wo
American Bitumuls & Asphalt Company	H 821
Devere Company	H 822
The Eclipse Lawn Mower Co., Div. of Buffalo-Eclipse Corporation	H 823
Gravely Tractors, Incorporated	H 824
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5. Buses

Wayne Works Division, Divco-Wayne Corporation	H 826
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Trouble-free, uninterrupted service—at exceptionally low upkeep cost—

PROVEN BY THE BROAD EXPERIENCE
OF SCHOOL USERS!

Now!

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OFFERS

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UNIVERSITIES**

**THIS UNCONDITIONAL
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ATLAS Floor-Machines are covered by the usual one-year guarantee against defective materials and workmanship. ATLAS business policy, however, is to make good voluntarily on any original defect, regardless of time! The construction, materials and workmanship built into every ATLAS Floor-Machine makes this unusual business policy possible.

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- ENGINEERED BY ATLAS . . .
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HD-196 —
19" FLOORMASTER with
adjustable handle.



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CARPET-SHAMPOOING

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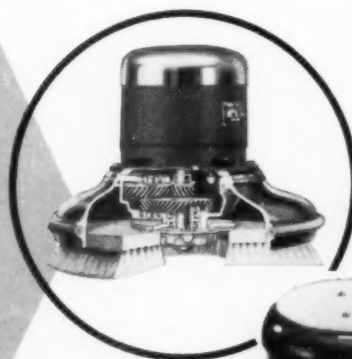
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DD-165 —
16" FLOORMASTER with
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VAC-KLEENS

ADVANCED, REVOLUTIONARY VACUUM CLEANERS
FOR WET AND DRY WORK.

DESIGNED TO WORK PERFECTLY TOGETHER

**ONLY ATLAS VAC-KLEENS have ALL these new and improved features
—yet—cost no more (and oftentimes less!) than ordinary machines!**

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mounted on 55-gal. auxiliary drum.



VK-832 — Quiet-type VAC-KLEEN;
3-stage turbine with 70" minimum
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BV-30 — BLO-VAC
1 1/2 HP Portable Blower
and Vacuum Cleaner.

ORDINARY VACUUMS:

Suck air only at center of nozzle creating power-weakening turbulence at sides; gives narrow cleaning path . . . means more work, more time with less effective results.

ATLAS VAC-KLEEN NOZZLE:

Wide-angle suction spreads cleaning-power to the very tips of the nozzle . . . covering more area in less time!

ATLAS VAC-KLEENS are the only vacuum cleaners with penetrating suction power. These machines just *thirst* for dirt . . . suck up liquids and dirt other vacuum cleaners leave behind. School and University floors come totally clean with less effort than ever before believed possible.

- NEW!** Carriage type caddy—adjustable to height of operator!
- NEW!** Extra-durable accessory basket with ample strength and holding capacity!
- NEW!** Exclusive cable-hooks for electric cable—no more twisting and winding cable around machine!
- NEW!** 2" hose, wand and accessory pick-up tools available along with 1 1/2" sizes—interchangeable without tools or adjustments!
- NEW!** Scientifically-designed wands for greater operating ease!
- NEW!** All floor and wall accessory tools swivel a full circle—(360°) and stay locked with positive locking device!

Now—ATLAS VAC-KLEENS pick up more dirt in less time . . . they breeze through clean-ups with precision-designed pick-up tools.

THESE TWO DIAGRAMS SHOW THE DIFFERENCE:



With Atlas by-pass motors for wet and dry pick-up, VAC-KLEENS save time and maintenance costs and are the most economical machines to operate! Stainless steel tanks are standard equipment on all VAC-KLEENS. Enamelled steel tanks also available at lower cost.

Dolly or caddy type carriages available for all VAC-KLEENS.

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3. Lambskin buffers for lusterized finishes.
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5. Solution-tanks in 3½-gal. and 4½-gal. sizes for all FLOORMASTERS in: 13", 14", 15", 15½", 16", 17", 19", 20" and 22" models.
6. Carpet and rug-scrubbing FOAMASTER brushes in 14", 16" and 19" sizes.

VAC-KLEEN ACCESSORIES:

1. Hoses of canvas; rubber-covered; vinyl; plastic; flexible steel.
2. Wands: S-curved for floor-tools; single-curved and straight for high-up tools.
3. Boiler tube wands and extensions—from 1 ft. to 6 ft.
4. Floor-Tools—for wet and dry work with: fibre shoes; felt shoes; laminated fabric shoes; neoprene shoes; hardened steel shoes; soft and stiff rubber squeegees.
5. Floor and Rug Tools: Flat aluminum shoes; serrated aluminum shoes; bronze shoes—for all wet and dry carpet and rug work.
6. Vacuum Hair Brooms—for dry work.
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8. Complete range of boiler tube and furnace cleaning accessories and attachments, including blower and vacuum nozzles.

All above VAC-KLEEN accessories are available to fit 1½" and 2" hoses and wands.

PORTABLE BLO-VAC UNITS:

Hand or shoulder-carried with list of blower and vacuum tools.

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WHEN IT COMES TO SCHOOL-
MAINTENANCE EQUIPMENT—
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for each Floor in your School
the HILLYARD MAINTAINER[®]
develops a specialized Treatment Plan.



protection

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High School Gymnasium

School gyms must take the beating of daily class work and recreational or community use yet must be easy to maintain in top shape for major athletic events. With the tough durable beauty of Hillyard Trophy Gym finish and daily, once-over care with a Super Hil-Tone treated yarn sweeping brush your gym will stand the gaff — look like a tournament floor the year 'round. The Hillyard gym care program is now in use on over 15,000 of the nation's finest basketball floors.

Ask Your Hillyard "Maintaineer" . . .

for a
FREE FLOOR SURVEY This is the Hillyard way of giving you personalized help on your floor care problems. The Maintaineer will take into account, floor by floor, the composition, location, use, and traffic. He'll discuss your special problems and requirements; recommend treatments, treatment methods and schedules; help train your custodial staff.



Spring, Missouri, High School



appearance

Good housekeeping and attractive clean environment contribute to good student work habits. Floors, most of all, reflect the appearance of your entire building. Hillyard Super Hil-Brite wax keeps floors shining 3 times longer than ordinary waxes—avoids expensive stripping and frequent waxings—cuts labor costs. Occasional scrubbing and damp mopping with safe Hillyard Super Shine-All neutral chemical cleaner eliminates rinsing. Lustrous beauty of the wax withstands repeated cleaning—buffs back like new.

long wear

Every school room floor demands the longest wearing floor wax and finishes available. Labor cost for recoating or refinishing is prohibitive when poor grade, short-lived floor treatment and maintenance materials are used. Hillyard seals for terrazzo, resilient and wood floors seal out the dirt and stains—enable tough, durable Hillyard waxes and finishes to last many times longer.



Newark, Calif., Elementary School

New Brighton, Minn., Mound View High School



s a f e t y

Underfoot safety is mandatory everywhere in your school building. Whether your floors are terrazzo, wood, resilient or concrete there is a Hillyard floor treatment product that's classified by U/L as "slip resistant"—Safe for your floors too for they are approved by flooring manufacturers and flooring contractors.

e c o n o m y

95c of every floor maintenance dollar goes for labor—only 5c for materials. It's true the best floor treatments are always the least expensive! It's true also that proper tools and equipment combined with modern floor treating techniques and specialized Hillyard treatment materials can cut labor time in half—save you up to 50% of your floor maintenance costs.



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HUNTINGTON Floor Finishing Products... for Schools, Hospitals, Hotels and Industry

Floor Finishing Products

FOR SCHOOLS, HOSPITALS, HOTELS, INDUSTRY

Floors old or new deserve proper maintenance to preserve or rejuvenate their beauty and to protect them against wear and deterioration in institutions where use is often abuse. Good maintenance products applied properly will greatly increase the life and usefulness of flooring materials.

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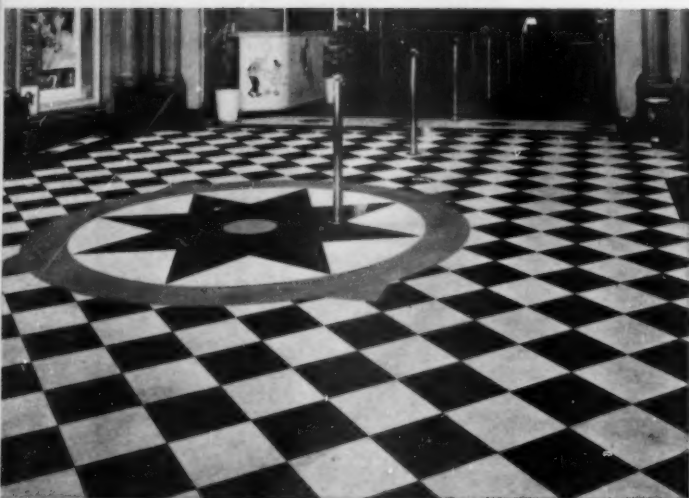
FLOOR FINISHES AND FLOOR



Concrete floors need a hard, non-skid surface that will resist the wear of constant traffic. Huntington Concrete Seal forms a tough finish with a satiny surface that is good-looking, long-lasting.



Proper curing as well as ultimate protection of the finished terrazzo floor can be accomplished with Huntington Terrazzo Seal. It protects the beauty against wear and discoloration and eliminates dusting and blooming.



Sealing with Huntington Terrazzo Seal protects marble floors against scratches, stains and discoloration and produces an anti-slip surface that is easy to maintain.

The Problem

Sealed concrete floors resist the wear of traffic, are more beautiful and are easier to maintain. Proper sealing also eliminates the problem of dusting and prevents efflorescence or blooming.

Proper slow curing of terrazzo assures greater density of concrete matrix and produces a more beautiful and durable floor. After the terrazzo is set, before grinding and polishing, it should be sealed to hold in moisture, slow up the curing process and protect the surface during construction.

After grinding, the application of a good sealer is again important. Terrazzo has a smooth surface which is 70% or more marble and about 30% neat Portland cement matrix. The cement is porous and must be sealed to keep out moisture, grease, acid and stains. Dusting and blooming are also eliminated by sealing.

Magnesite floors have a binder of magnesium oxychloride. A great variety of fillers is used, giving highly variable appearance, durability, resilience, etc. All must be sealed for serviceability. Sealing keeps out moisture which will attack the binder and might attack some of the fillers used, such as leather, sawdust, cork, etc. Sealing also prevents blooming.

Marble is principally calcium carbonate in crystalline form. It is sometimes quite porous and should be sealed and/or waxed. Sealing protects the polished surface against scratches and stains.

Ceramic Tiles are set in concrete, and the concrete matrix between the tiles must be sealed against moisture, grease and stains and to prevent blooming.

TREATMENTS GIVE YOU EXCELLENT RESULTS

H-1/Hu

The Products

Applications

Specifications

CONCRETE AND TERRAZZO

Huntington Concrete Seal assures proper curing and greatest density on new floors. It is ideal to rejuvenate and beautify old floors. It penetrates and fills concrete pores to form a tough, satiny surface that is easy to keep clean and impervious to water, grease and oil stains. This protects the floor from staining, pitting and chipping due to cleaning with alkali. A clear and practically colorless liquid, it will not darken floor.

Seal-O-San Enamel is ideal on concrete floors where a colored coating is desired. Great durability, non-slippery. Available in seven colors. It is advisable for concrete to be one year old or older before painting.

Penetrating Seal-O-San is an exceptionally durable concrete seal but darkens floors somewhat. Will not build up on the surface and is very easy to keep clean.

Cosmolite Anti-Slip Wax is designed to prevent slips and falls while providing wax protection and beauty. It contains colloidal silica (Ludox) which prevents slipperiness but doesn't leave wax tacky. Easy to maintain.

Huntington Terrazzo Seal helps cure new terrazzo and protects old and new floors against traffic. It eliminates dusting and blooming. It is waterproof, non-porous and unaffected by alkalies and alkali salts. Colorless, it will not darken floor. Dries quickly. The non-skid surface is impervious to usual scrubbing solutions made with soap or detergents, yet it yields and scrubs off when a solution made with Black Duck (a special product containing solvents) is used.

Spal Concentrate Detergent, a soapless synthetic detergent, cleans quickly and leaves no film. Safe on all surfaces not harmed by water. Makes floors sparkle. Penetrates greasy, oily dirt, floats it away.

Huntington Film-Off effectively cleans concrete and terrazzo without the use of acid. In spite of its cleaning power, this product cannot damage the grain structure.

Neutralizing the floor is not necessary with Huntington Concrete Seal, but the surface must be perfectly dry. If Seal-O-San Enamel or Penetrating Seal-O-San is used, the floor must be neutralized with Huntington No. 1 Cleaner to remove excess lime. (Use as directed on label.) Then floors should be thoroughly rinsed, and surface must, again, be perfectly dry before applying Huntington product.

Huntington Terrazzo Seal should be applied to the unpolished, rough-stoned terrazzo floor as soon as the surface is free from moisture. Then, after grinding and polishing, the floor should be scrubbed with Spal, rinsed, dried and then sealed again. Cosmolite Anti-Slip Wax should be applied to protect surface.

New Floors: Apply Huntington Concrete Seal according to manufacturer's printed directions as soon as concrete is set and surface is dry. When dry, apply one or two additional coats until pores are filled. Coverage: 500 square feet per gallon.

If a colored coating is desired, neutralize floors, rinse and dry. Then apply first coat of Seal-O-San Enamel according to manufacturer's printed directions. First coat of enamel should be mixed half and half with Penetrating Seal-O-San. Then apply second coat of Seal-O-San Enamel. Coverage: 400 to 500 square feet per gallon. Wax with Cosmolite Anti-Slip Wax according to manufacturer's printed directions to protect finish. Coverage: 2000 to 2500 square feet per gallon.

Old Floors: Clean thoroughly, remove stains, rinse well and allow to dry. Then apply Huntington Concrete Seal according to manufacturer's printed directions. Coverage is approximately 500 square feet per gallon.

New Floors: After marble is set firmly in concrete matrix and surface is dry, apply liberal coat of Huntington Terrazzo Seal according to manufacturer's directions. Allow floor to cure for at least six days. After grinding and polishing, terrazzo surface should be thoroughly scrubbed with Spal Concentrate, rinsed and dried. Then apply two thin coats of Huntington Terrazzo Seal. Coverage: 1000 square feet per gallon. If wax is to be applied, after thorough drying, apply thin coat of Cosmolite Anti-Slip Wax according to manufacturer's directions. Coverage: 2000 to 2500 square feet per gallon.

Old Floors: Scrub floor thoroughly with Spal Concentrate Detergent or Huntington Film-Off, remove all traces of old finish. Dry thoroughly, then apply two coats of Huntington Terrazzo Seal. Coverage: 1000 square feet per gallon. If wax is to be applied, apply thin coat of Cosmolite Anti-Slip Wax after thorough drying, according to directions. Coverage: 2000 to 2500 square feet per gallon.

MAGNESITE, MARBLE, TILE

Penetrating Seal-O-San is a light, penetrating seal that protects against the dissolving action of moisture and binds together fibrous particles for added strength.

Wax alone makes a fine surface for magnesite. Use Liqua-Shine Liquid Spirit Wax, highly concentrated, water-resistant and easy to apply with a lambswool mop, or Floor-Shine Liquid Spirit Buffing Wax which provides a tough, protective coat that beautifies, resists water spotting and can be buffed to brightness many times.

Huntington Terrazzo Seal, as described under Terrazzo Floors, should be applied. It has a rubber base which makes it resistant to alkalies and produces an anti-slip surface. Gives floors a high shine with no darkening, even on white marble.

Cosmolite Anti-Slip Wax, as described under Concrete Floors, is recommended if floor is to be waxed. This anti-slip coating assures safety. WFM Cleaner may also be used. It builds up a wax-type finish that is attractive and easy to maintain.

Huntington Terrazzo Seal, as described under Terrazzo Floors, should be applied to seal the concrete matrix. Cosmolite Anti-Slip Wax applied to sealed floor assures non-slip safety and a hard surface. It protects the concrete matrix against moisture.

Penetrating Seal-O-San should be applied with sufficient frequency to prevent traffic soil and stains from being ground into the floor . . . at least every six months. For longer life and greater durability, the sealed surface may be waxed with Liqua-Shine or Floor-Shine Wax. Be sure to remove all traces of wax when recoating with Seal-O-San.

The floor should be carefully cleaned, avoiding all acids and gritty scouring powder, and using cleaning crystals only with proper safeguards. An application of clear water should be used before any cleaning compound is used. After rinsing, cleaning and drying thoroughly, the floor should be either sealed or waxed, or both.

The surface should be allowed to cure . . . then cleaned and dried . . . and finally sealed and/or waxed.

New Floors: After thoroughly curing, scrub and allow to dry, then apply one or two coats of Penetrating Seal-O-San in accordance with manufacturer's printed directions. Coverage: 400 to 500 square feet per gallon. If wax is used, apply two coats of Liqua-Shine (or Floor-Shine) in accordance with manufacturer's printed directions. Coverage: 1200 to 1500 square feet per gallon.

Old Floors: Clean thoroughly and apply Penetrating Seal-O-San and/or wax as for new floors.

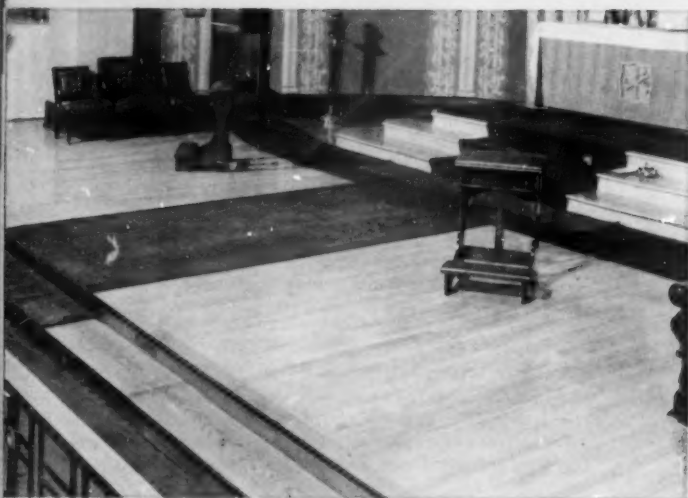
New Floors: Clean floors thoroughly, then apply two coats of Huntington Terrazzo Seal according to directions. Coverage: 1000 square feet per gallon. Finally apply one thin coat of Cosmolite Anti-Slip Wax according to directions. Coverage: 2000 to 2500 square feet per gallon. If surface is to be waxed only, apply two thin coats of Cosmolite Anti-Slip Wax according to manufacturer's printed directions. Coverage: 2000 to 2500 square feet per gallon.

Old Floors: Remove all old wax, seal or other finish; clean thoroughly, remove stains, rinse and let dry. Apply Huntington Terrazzo Seal or Wax as for new floor.

Clean thoroughly, then apply two coats of Huntington Terrazzo Seal according to manufacturer's printed directions. Coverage: 1500 square feet per gallon. If wax is used, apply two coats of Cosmolite Anti-Slip Wax to finished floor according to manufacturer's printed directions. Coverage: 2000 to 2500 square feet per gallon.

Huntington

FLOOR FINISHES AND FLOOR



Wood floors treated with Seal-O-San have a satiny, durable finish. Seal-O-San strengthens wood fibres; protects against wear; and resists drying, discoloration, cracking and chipping. Maintenance is greatly reduced.



Non-skid, glareless floors that will not rubber burn are the most important requirements of the gym floor. Huntington Seal-O-San meets all these while protecting the beauty of the floor.



Asphalt tile gym floors must be anti-slip and easy to clean. Huntington Safe-T-San Waxless Floor Polish or Cosmolite Wax fulfill these requirements and also protect the floor's original beauty.

The Problem

To seal and protect hard or soft wood flooring against wear, discoloration, moisture and excessive dryness. To avoid hard, surface-type seals or varnishes that discolor, dry out, crack and chip away. To provide a safe, non-slippery surface which is simple to maintain.

To provide the best possible playing floor . . . non-skid with a glareless surface and light in color . . . that will not rubber burn and will give long service under fast action without expensive refinishing. To protect the wood from wear and to provide a multi-purpose floor that is easy to maintain at low cost.

Gym floors surfaced with asphalt tile must be finished for safety, to keep their beauty and to simplify cleaning. They should be waxed with a skid-proof wax such as Huntington Cosmolite Anti-Slip Wax or polished with Safe-T-San Waxless Floor Polish. Either finish permits fast playing action with safety.

TREATMENTS GIVE YOU EXCELLENT RESULTS

H-1/Hu

The Products

Applications

Specifications

WOOD FLOORS other than gymnasiums

Penetrating Seal-O-San is the ideal finish for a majority of heavily trafficked wood floors outside the gymnasium. A light, thin, deeply penetrating plastic-type sealer that sinks into the wood, strengthens wood fibres and protects against wear. The surface can easily be patched if traffic lanes appear. It produces a satiny surface without gloss. Approved by the Maple Flooring Manufacturers Association.

Seal-O-San Gym Floor Finish, while intended especially for gymnasiums, may be used for other wood floors.

Seal-O-San Enamel will seal, preserve and decorate wood floors. It is applied like any Seal-O-San product—merely mopped on the floor. Use it for borders of gym floors and other wood floors. Great durability, non-slippery. Available in seven colors—light gray, dark gray, maroon, tile red, green, dark oak and aluminum.

Wade Seal and Varnish Remover is a non-flammable product designed to dissolve and remove seal, paint and varnish from finished surfaces. Wade is positively safe—it can be used without danger of fire hazards.

Wax—A wide variety of Huntington waxes and polishes protect and beautify sealed wood floors.

Spal Concentrate Detergent . . . a new soapless synthetic detergent that cleans quickly and leaves no film. Safe on all surfaces not harmed by water. Makes floors sparkle. Penetrates greasy, oily dirt, floats it away.

Any of the Seal-O-San products are extremely easy to use. They are penetrating and self-leveling. It is easy, therefore, to apply a uniformly thin coat over the entire floor. However, the floor should be laid out in six to 10 foot square sections and sealed section by section. This will avoid lap marks. There are several methods for applying seal. The manufacturer's printed directions explain them in detail. As a caution, always apply thin coats and buff with steel wool between coats to obtain the finest and most durable surface. Wood floors (other than gymnasiums) should then be waxed with one of several fine Huntington waxes to protect against heavy traffic.

New Floors: After sanding, sweep or vacuum floor to remove loose dust. Then sweep with a tack rag folded around floor brush. This removes all traces of wood dust. Seal wood with one coat of Penetrating Seal-O-San according to manufacturer's printed directions. Allow to dry, then steel wool and pick up all dirt. Then apply two more coats of Penetrating Seal-O-San, steel wool between coats, and if desired, after final coat. Coverage: 400 to 500 square feet per gallon. Apply two thin coats of a Huntington wax according to manufacturer's printed directions. Coverage: 2000 to 2500 square feet per gallon. If a wax-free polish and protection is desired, use K-183 Plastic Floor Polish, a hard film type of product. If the slip factor is of paramount importance, use wax-free Safe-T-San Floor Polish or Cosmolite Anti-Slip Floor Wax.

Painting or decorating areas: Apply one or two coats of Seal-O-San Enamel over thoroughly clean floors according to manufacturer's printed directions. Wax to protect finish. Coverage: 400 to 500 square feet per gallon.

Old Floors: Remove seal by sanding, or if boards are too thin for further sanding, use Wade Seal and Varnish Remover according to manufacturer's printed directions. Coverage: 75 to 100 square feet per gallon. Then clean and apply seal as for new floors.

Old Floors in Good Condition: Thoroughly scrub away all accumulated dirt and surface stains with Spal Concentrate Detergent according to manufacturer's printed directions. Then rinse, dry and apply one coat of Penetrating Seal-O-San.

WOOD GYMNASIUM FLOORS

Penetrating Seal-O-San provides the ideal prime coat before other types of Seal-O-San are applied.

Seal-O-San Gym Floor Finish: A durable finish for hardwood gym floors that is non-slippery, glare-free, resistant to scuffing and rubber burns. It assures safe, sure footing, and is easy to apply and maintain. Reduces costly scrubbing and refinishing. It is approved by the Maple Flooring Manufacturers Association.

Seal-O-San Gym Line Enamel is especially formulated for use with Seal-O-San on floors and playing courts. May be used for floor decoration. Available in most school colors.

Wade Seal and Varnish Remover is a non-flammable product designed to dissolve and remove seal, paint and varnish from wood surfaces. Wade is positively safe—it can be used without danger of fire hazard.

Spal Concentrate Detergent, as described under Concrete Floors, should be used for scrubbing gym floors.

Any of the Seal-O-San products are extremely easy to use. They are penetrating and self-leveling and can be applied with a lamb's wool applicator. It is easy, therefore, to apply a uniformly thin coat over the entire floor. However, the floor should be laid out in six to 10 foot square sections and sealed section by section. This will avoid lap marks. There are several methods for applying seal. The manufacturer's printed directions explain them in detail. As a caution, always apply thin coats and buff between coats to obtain the finest and most durable surface.

New Floors: After sanding, sweep or vacuum floor to remove all traces of sanding dust. Then sweep with a tack rag folded around floor brush. This removes all traces of wood dust. Seal wood with one coat of Penetrating Seal-O-San according to manufacturer's printed directions. Coverage: 400 to 500 square feet per gallon. Allow to dry, then steel wool and clean thoroughly. Paint the court lines with Seal-O-San Gym Line Enamel according to manufacturer's printed directions. Apply two coats of Seal-O-San Gym Floor Finish according to manufacturer's printed directions. Coverage: 500 to 600 square feet per gallon.

Old Floors: Remove seal by sanding, or if boards are too thin for further sanding, with Wade Seal and Varnish Remover according to manufacturer's printed directions. Coverage: 75 to 100 square feet per gallon. Then clean and apply seal as for new floors.

Old Floors in Good Condition: Thoroughly scrub away all accumulated dirt and surface stains with Spal Concentrate Detergent according to manufacturer's printed directions. Then rinse, dry and apply one coat of Seal-O-San Gym Floor Finish.

ASPHALT TILE GYM FLOORS

Cosmolite Anti-Slip Wax, as described under Concrete Floors.

Safe-T-San Waxless Floor Polish, as described under Asphalt Tile Floors.

Never apply solvent-type waxes to asphalt tile gym floors. Instead use approved water-dispersed, anti-skid products like Cosmolite or Safe-T-San. Apply in thin coats. Keep floors dust-free.

New Floors: Allow floor and adhesive to set for ten days to two weeks, then clean floor thoroughly with Spal Concentrate Detergent according to manufacturer's printed directions. After drying, apply Cosmolite Anti-Slip Wax or Safe-T-San Floor Polish according to manufacturer's printed directions. Coverage: 2000 to 2500 square feet per gallon.

Huntington

FLOOR FINISHES AND FLOOR TR



Huntington C-2C Conductive Wax is the only wax accepted by the Underwriters' Laboratories for use on conductive floors. It keeps conductive floors easy to clean, preserves their beauty and maintains their conductivity.

The Problem

To maintain floors of conductive material in clean and attractive condition while also maintaining electrical conductivity. (SAFE CONDUCTIVITY WITHIN LIMITS ESTABLISHED BY N.F.P.A.)

To protect the surface of all floors of the resilient or "soft" type . . . to maintain their beauty and simplify maintenance. Waxes containing oils and solvents should never be used on asphalt or rubber tile.



Rubber tile and all other "soft" floors should be protected both to preserve their beauty and to simplify maintenance. There is a Huntington wax that is correct for each resilient-surface floor.



The porous surface of the cork floor must be protected against excessive wear, stains and dirt. The life of the floor can be greatly increased by the use of Huntington waxes.

To protect and preserve the surface of vinyl plastic floors, walls and counters.

To preserve the beauty and color of cork and prevent the porous surface from absorbing stains. Should be sealed or waxed, or both, to increase long life and simplify maintenance. Wax alone is suitable for cork tile, but cork carpet requires sealing.

DOOR TREATMENTS GIVE YOU EXCELLENT RESULTS

H-1/Hu

The Products

Applications

Specifications

CONDUCTIVE FLOORS

Huntington C-2C Conductive Wax is for use on electrically conductive floors. Listed by Underwriters' Laboratories, it does not interfere with conductivity—contains no flammable solvents, makes floors easy to clean, preserves beauty and increases their life.

Spal Concentrate Detergent . . . a soapless synthetic detergent that cleans quickly and leaves no insulating film. Recommended for cleaning conductive floors.

Clean floor thoroughly with Spal Concentrate Detergent (never use soap). After floor is dry, apply one thin coat of Huntington C-2C Conductive Wax and buff. Test frequently for conductivity. Also keep all floors adjoining danger area waxed with C-2C to avoid tracking non-conductive wax onto the conductive flooring.

New and Old Floors: Clean floor thoroughly with Spal Concentrate Detergent according to manufacturer's printed directions. Apply Huntington C-2C Conductive Wax according to manufacturer's printed directions. Apply only one coat. Buff with fine steel wool to obtain bright polished appearance. Test for conductivity. Coverage: 2000 to 2500 square feet per gallon.

ASPHALT, LINOLEUM, RUBBER

Self-polishing, water-dispersed waxes were developed for "soft" floors. They will not injure the floors in any way and will protect against traffic, moisture, oils and other dirt. Huntington manufactures: Cosmolite Anti-Slip Wax as described under Concrete Floors; Neo-Shine Concentrated Wax containing 18% solids, 50% richer in wax content than most self-polishing waxes used in heavy traffic areas; and Weatherall Water-Resistant Wax. Weatherall is a heavy-duty wax which maintains a beautiful, blemish-free surface for long periods under heavy, wet traffic and frequent damp mopping. It will not water spot and is resistant to alcohol.

K-183 Plastic Floor Finish is a wax-free, resin finish of the new hard film type. It is a high gloss, scuff resistant finish for asphalt tile, rubber tile, linoleum and vinyl plastic surfaces. Easily applied and needs no buffing.

Safe-T-San is a highly skid resistant floor polish for all slippery floor material, especially in critical applications where floors present slip hazards. It gleams like wax and is ideal for use on asphalt tile gym floors. It contains no harmful solvents and is easy to apply, maintain or remove.

Spal Concentrate Detergent, see Terrazzo Floors.

On linoleum and vinyl floors, paste or liquid solvent waxes may be used (do not use on other soft floors). We offer Floor-Shine and Liqua-Shine, as described under Magazine Floors.

New floors must have time to conform to the subfloor surface and for the mastic or adhesive to set and dry. Meanwhile, no moisture should be allowed on the floor (a period of 10 days to two weeks). Scrubbing at this time can quickly and permanently destroy the appearance and value of the flooring material. At the end of this waiting period, the floor is simply scrubbed with a good neutral cleaner like Spal Concentrate Detergent and waxed with two thin coats of water-dispersed wax, Neo-Shine Wax, Cosmolite Wax or Weatherall Wax. A generous coat or two of K-183 Plastic Floor Finish or two thin coats of Safe-T-San will provide a wax-less coating.

New and Old Floors: Clean floor thoroughly with Spal Concentrate Detergent according to manufacturer's printed directions. Apply Weatherall Wax (change to Neo-Shine Wax, Cosmolite Wax, Weatherall Wax, K-183 Plastic Floor Finish or Safe-T-San, according to preference) according to manufacturer's printed directions. Coverage: 2000 to 2500 square feet per gallon.

VINYL

The following Huntington products can be used safely on vinyl plastic surfaces: Neo-Shine Wax, Weatherall Wax, Cosmolite Anti-Slip Wax, Safe-T-San Wax, C-2C Conductive Wax, K-183 Plastic Floor Polish, Liqua-Shine, Floor-Shine and Huntington Paste Wax.

Clean floor thoroughly, using a minimum of water to protect against loosening the cementing material. Apply desired wax in two coats. Buff with machine. (Note, if K-183 is used, do not buff.)

New Floors: Apply two coats of wax, following directions on label.

Old Floors: To rewax, clean thoroughly with Floor-San. When dry, protect with two coats of wax.

CORK, CORK CARPET

Seal-O-San Gym Floor Finish, a modern seal that sinks deep into the porous surface, fills the cells and makes cork much more durable, prolonging the floor life. Does not make floor noisy or hard.

Cosmolite, Neo-Shine or Weatherall water-dispersed, self-polishing waxes or Liqua-Shine solvent-type liquid wax may be used either directly on the cork or over the seal.

With cork, like other soft floors, it is wise to keep all moisture off the floor for a curing period during which the adhesive sets firmly. Then the flooring should be thoroughly scrubbed, rinsed, dried, and sealed or waxed. Sealing and waxing is most desirable on a floor that will be heavily used.

New Floors: After floor is laid and cleaned, apply two or three coats of Seal-O-San Gym Floor Finish according to manufacturer's directions. Let dry for 24 to 36 hours, apply two thin coats of Neo-Shine Wax (or other Huntington wax) according to directions.

Old Floors: Badly stained, indented or deteriorated floors may be sanded before sealing. Disc-sanding with a Silent Huntington Floor Machine is one method. Remove all traces of sanding dust with a tack rag, then seal and wax as above.

For cork carpet, apply two or three coats of Seal-O-San Gym Floor Finish. When thoroughly dry, apply two thin coats of Neo-Shine Wax (or other Huntington wax).



The MAN Behind the DRUM...

Floor finishing and maintenance require a specialized knowledge . . . and your Huntington representative has that information. He knows what floor finishing materials should be used on different types of floors. He knows just exactly how they should be applied for maximum protection and beauty. So the next time you have a floor finishing or maintenance problem, ask the Man Behind the Drum . . . your Huntington representative . . . for his recommendations. It can save you money.

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MACHINES

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 Cleaners
 Furnace Cleaning
 Equipment
 Portable Upholstery
 Cleaning Units
 Floor Sanding
 Machines

**HERE'S EVERYTHING
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FLOOR LIQUIDS

Waxes
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For ALL Types of Floors

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- LINOLEUM
- CERAMIC TILE
- MARBLE
- TRAVERTINE
- CORK
- CARPETING



MULTI-CLEAN'S GUARANTEE. Every MULTI-CLEAN Machine is guaranteed in writing to be free of defective workmanship and material. For one year from date of purchase, MULTI-CLEAN will replace any part that fails due to a defect in material or workmanship. How is MULTI-CLEAN able to make and stand behind such a promise? Simply by manufacturing, inspecting, and testing each machine so carefully that it is a rare occurrence when a defective unit has ever left the factory. Yes, MULTI-CLEAN stands behind its guarantee with pride and confidence.

MANUFACTURED BY



2277 FORD PARKWAY • ST. PAUL 16, MINNESOTA

MULTI-CLEAN Floor Machines.

9 Job FLOOR MACHINES

• For scrubbing, buffing, dry cleaning, waxing, polishing, sanding, grinding, and trowelling, the versatile MULTI-CLEAN Floor Machine is unexcelled. By adding a 3½ gallon solution tank, feed control, and channel feed brush, it becomes an efficient scrubbing machine for use in in-plant and on-location rug cleaning. Here are just a few of the features which make MULTI-CLEAN Floor and Scrubbing Machines the favorite of both owners and operators.

1. LUBRICATED FOR LIFE. The compact MULTI-CLEAN gear unit is sealed and permanently lubricated at the factory. It is 100% ball bearinged. The shafts and gears in this double planetary transmission roll freely on 8 ball bearings... 4 on the main shaft and 2 in each of two transfer gears. Combines silent, dependable operation with maximum efficiency and lifetime construction.

2. MORE POWER FROM LESS CURRENT. The extra-heavy duty G.E. twin capacitor motor, with sealed bearings and no brushes, delivers more power from less electricity. It doesn't interfere with radio, television or audio-visual equipment.

3. EASY TO OPERATE. Operators love these quiet, smooth-running machines. Handle is easily adjusted to the height of any operator and may be set vertical to save storage space. No matter how the handle is adjusted, the

weight is always balanced over the brush to make guiding almost effortless.

4. RUBBER BUMPER PROTECTS FURNITURE. A 1" non-marking tubular rubber bumper surrounding the base and the plastic bumper surrounding the drip cover prevents marring baseboards, furniture, and the machine.

5. PORTABLE. Sturdy wheels of non-marking rubber lock out of the way when you are operating machine. Heavy-duty axle prevents sagging or wheel spread. Oilite type bearings on wheel and axle need no lubrication.

6. EXTRA-SAFE SWITCH. Underwriter-approved switch cuts off automatically when finger grip is released or may be locked on for continuous operation.

7. 3-CONDUCTOR SAFETY-TYPE CABLE. Heavy-duty 3-conductor cable has twist lock connector to make it quick and easy to attach or remove cable from machine.



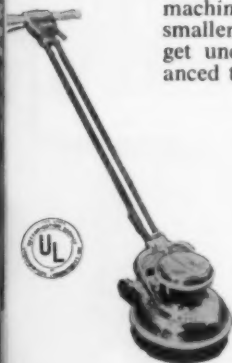
FLOOR MACHINE SCRUBBING MACHINE	LITE-12	MC-12	MC-14	MC-16	MC-19	MC-22	MC-31
	G.E. Industrial 115V AC	MCS-12	MCS-14	MCS-16	MCS-19	MCS-22	
Motor	Extra-heavy duty 115 or 230 volt G.E. capacitor (all models)						
HP Rating	1/3	1/3	1/2	3/4*	1**	1**	1 1/2
Brush RPM	175	175	175	175†	175†	160†	160†
Brush Spread	12"	12"	14"	16"	19"	22"	31"
3-Conductor Cable	30 ft. 18 gauge	40 ft. 18 gauge	40 ft. 16 gauge	40 ft. 14 gauge	40 ft. 14 gauge	40 ft. 14 gauge	40 ft. 12 gauge
U.L. Listed	Yes	Yes	Yes	Yes	Yes		
Weight floor machine (lbs.)	38	68	70	93	96	125	182
Weight scrubbing machine (lbs.)	—	88	90	116	123	152	—

* 1 hp motor optional at additional cost.

** 1 1/2 hp motor optional at additional cost.

† Higher speed gear unit giving 280 rpm available at slight additional cost.

LITE-12 SERIES W. This lightweight, noiseless machine does all the jobs of the bigger floor machine except that it is recommended for smaller areas—750 to 2,000 sq. ft. Its low to get under desks, pews, etc., yet perfectly balanced to give finger-tip control and easy operation. A direct ball bearing drive, lubricated for life, insures quiet operation. Non-marking plastic bumpers surround the base and the polished motor cap to eliminate marring of furniture, walls, etc. Has both floating or stationary handle to give operator choice of positions. Finger-tip switch, plastic coated for safety purposes. Heavy duty 3-inch wheels for ease of mobility and transportation. Underwriters' Laboratories listed. See specifications in above box.



HOW TO PICK THE RIGHT SIZE FLOOR MACHINE

Use this guide
to select the proper size floor machine
to "fit" your floor area.

If floor area is 750 to 2,000 sq. ft.	If floor area is 2,000 to 5,000 sq. ft.	If floor area is 5-10,000 sq. ft.	If floor area is 10-20,000 sq. ft.	If floor area is over 20,000 sq. ft.	Recommended for hallways and large unobstructed areas
MC-12 113 sq. in. brush area	MC-14 154 sq. in. brush area	MC-16 201 sq. in. brush area	MC-19 283 sq. in. brush area	MC-22 380 sq. in. brush area	MC-31 855 sq. in. brush covering area

Scrubbing Machines

All-Purpose SCRUBBING MACHINES

● **MULTI-CLEAN All-Purpose Rug and Floor Scrubbing Machines** are identical with the corresponding size MULTI-CLEAN Floor Machine except for the addition of tank, fluid controls, and channel feed brush.

The big, heavy-gauge 3½ gallon steel solution tank is specially designed so fluid won't spill, even when tilted. Tank finished in handsome baked-on enamel. Has easy pour opening which eliminates spillage of solution on floor or carpet.

Adjustable-height handle with finger-tip control of solution flow and motor enable the operator to save as much as 10 to 20 minutes in cleaning an average 9x12 rug.

The powerful G.E. motor, permanently lubricated ball bearings, and all other long-life and safety features which make MULTI-CLEAN Floor Machines the finest on the market, also apply to the scrubbing machine.



Explosion-Proof FLOOR MACHINE

● An explosion-proof machine that combines safety with efficiency. For scrubbing, cleaning, buffing, and polishing in presence of combustible gases, liquids, and dust.

Completely enclosed explosion-proof motor, Crouse-Hinds heavy duty safety switch and connection box, and all other electrical components are U/L listed.

Standard MULTI-CLEAN features include balanced design, adjustable handle, finger-tip control, permanent lubrication, and non-marking bumpers.

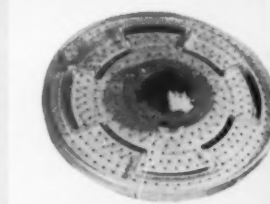
Available in 14" and 16" sizes. May be used for sanding, steel wooling, etc. in non-hazard areas. Can be equipped with solution tank and channel-feed brush for scrubbing.

	MC-EX-14	MC-EX-16
Motor	G.E. capacitor 115-230 V	
Hp rating	½	¾
Brush RPM	175	175
Brush spread	14"	16"
Cable	40' Neoprene covered, 3-conductor	
Weight of floor machine (lbs.)	105	150
Weight of scrubbing machine (lbs.)	125	173

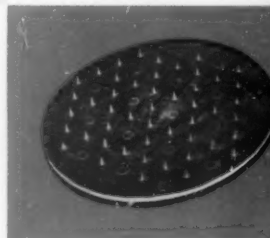
Polishing Brush. For buffing and polishing wax to bright, hard finish. Heavy 9-ply non-warp plywood and selected tampico fibre makes this an excellent choice for any floor. Level-trimmed to give smoother operation and longer life.



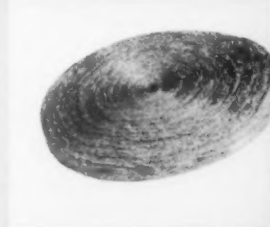
Channel Feed and Wooden-Back Scrubbing Brushes. Channel Feed metal-backed brush saves solution by even distribution. Easily cleaned and may be refilled when bristles are worn. Wooden-back brush has a 9-ply non-warping plywood back and either bassine or palmetto fibre.



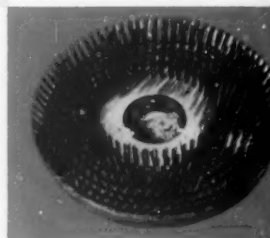
Steel Wool Disc Holder. Manufactured with pliable rubber facing to protect floors and make steel wool discs last longer for dry-cleaning, polishing, buffing or scrubbing. Channel Feed Disc Holder, available for use with Scrubbing Machine, saves cleaning solutions by distributing them more evenly.



Steel Wool Disc. For dry cleaning, buffing, polishing or scrubbing all types of floors. Extra thick. Wound from best grade steel wool and reinforced by steel wire as shown. All sizes from 10" to 22" diameter and in grades 0, 1, 2, and 3.



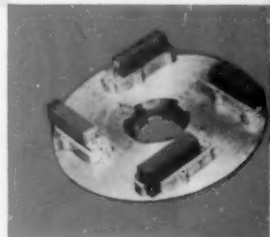
Steel Wire Scrubbing Brush. For removing hard-caked dirt and grease deposits or for scrubbing concrete or other hard surface floors. Frequently used with steel wool disc. Stiff or Butcher wire brushes also available for extra tough cleaning jobs.



Lambs Wool Buffer and Felt Buffing Pad. To give a beautiful satin finish to any waxed or polished floor. Removes swirl marks. These buffers and pads are used under scrubbing or polishing brushes.



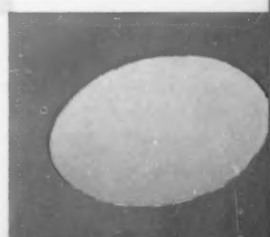
Grinding Disc. For wet-grinding rough or pitted concrete, marble, or terrazzo ... gives new or old floors a smooth finish. Super-strength cast aluminum alloy disc is fitted with four long-wearing, easily renewed carborundum blocks.



Sanding Disc. For sanding all types of wood floors to the smoothest sanding finish possible. This simplified disc requires no specially-cut sandpaper. Cast aluminum alloy frame with felt backing provides resilient base for sandpaper.



Concrete Floating Disc. For floating fine sand and cement to the surface and forcing coarser materials to sub-surface, thus preparing wet concrete for the final smooth trowelling job. Manufactured from durable cast aluminum alloy. Available for MC-16 and MC-19 models only.



"MCV" SERIES

MULTI-CLEAN VACUUM CLEANERS

MCV214

MCV220

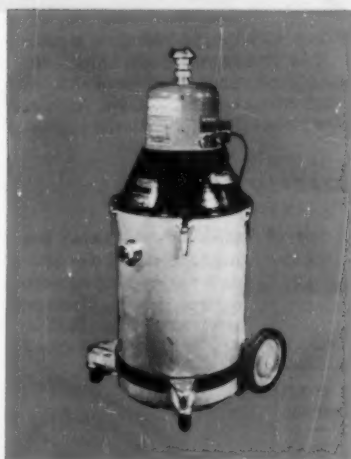
MCVH14

MCVH20



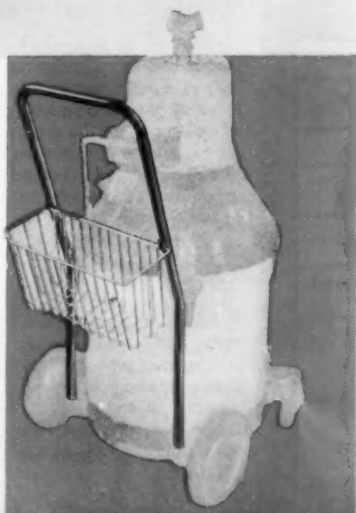
MCV214. Designed for use in medium and large areas, the MCV214 is the most popular of all MULTI-CLEAN VACUUMS. Tank capacity is 10 gallons liquid or 1½ bushels dry. Mounted on 2 ball bearing castors on front and 2 8" wheels in back. Standard attachments: V796 10' 1½" hose, intake connector, electronic shut-off.

MCV220. Similar to MCV214 except it has a tank capacity of 16 gallons wet or 2¼ bu. dry. Standard attachments: V796 10' x 1½" white flexible hose, intake connector, electronic shut-off. Either the MCV214 or MCV220 can be furnished with a 1½ horse power motor at slight additional cost.



MCVH-14 and MCVH-20. For hospital use, the MCV-214 and MCV-220 are modified to be extra silent. Known as the MCVH-14 and MCVH-20, these are available in gleaming white and chrome finish. Same specifications and same attachments as for the MCV-214 and MCV-220.

HANDLE ASSEMBLY. This assembly will fit the MCV214, MCV-220, MCVH14 and MCVH20 (and G-400 Vacuum in Century Series Line). All that is necessary is to place handle into wheel brackets and tighten allen screws. Ideal for transporting vacuums up and down stairs. It can also be added to any MCV Vacuum now in use in the field. Write for information on conversion.



● In schools, hospitals, commercial buildings, hotels, industrial plants, dry cleaning establishments all across the nation, MULTI-CLEAN portable vacuum cleaners are saving their owners substantial sums in cleaning costs.

These easy-rolling, non-tipping vacuums are used for cleaning all types of floors, rugs, upholstery, radiators, venetian blinds, walls, ceilings, bins, overhead fixtures, beams and pipes. Spray and blower attachments are also available. They are built for heavy duty and long life.

POWERFUL CLEANING ACTION. The Heavy Duty G.E. motor powers a 3-stage turbine which moves a vast quantity of air at high velocity. This creates the powerful suction needed for *complete* pickup. The motor has its own *independent* by-pass air cooling system so that dirt and dust are kept from the motor... another reason why MULTI-CLEAN Vacuum Cleaners give so many years of trouble-free service.

STABILIZED MOTOR BRUSHES. This exclusive MULTI-CLEAN feature doubles motor brush life and practically eliminates burned-out armatures. Brushes are constantly held at right angles to the armature. Tests prove that average life of MULTI-CLEAN brushes is between 1000 and 1500 operating hours compared to 250-500 hours for standard carbon motor brushes.

AUTOMATIC SHUTOFF. MULTI-CLEAN'S famous "Magic Eye" electronic shutoff prevents damage to motor in the event the vacuum tank is accidentally overloaded with liquid. If as little as one drop touches the electrodes, the "Magic Eye" goes into action, instantly shutting off the motor and preventing re-starting until tank is emptied and switch reset. This exclusive MULTI-CLEAN feature is found on all MCV models.

FOR SAFETY. 2 hp safety switch is approved by Underwriters' Laboratory. The 30-foot, 3-conductor cable is protected at switch by use of a heavy, spring-type strain reliever.

BRONZE WOOL FILTER. Filter consisting of 3 layers of bronze wool used on MCV 214, 220 and MCVH14-20 models allows cleaning solution to be picked up as easily and quickly as dirt and dust. Filters are easily removed for cleaning and replacement. Fabric filters are available for use in very fine material such as flour or cement dust.

Floor, ceiling, and pipe tools and other accessories are described in MULTI-CLEAN Form 566.

	MCV214	MCV220	MCVH14	MCVH20
Motor	Extra-heavy duty G.E. Universal 115V AC/DC			
HP rating	1*	1*	1	1
Minimum water lift (closed orifice)	64"	64"	64"	64"
Tank capacity (gal.)	10	16	10	16
Tank capacity (bu.)	1½	2¼	1½	2¼
Hose length	10'	10'	10'	10'
Hose diameter	1½"	1½"	1½"	1½"
Weight (lbs.)	65	70	65	70

*1½ HP motor available at extra cost.

"Century"

SERIES

MULTI-CLEAN VACUUM CLEANERS

D-100

D-110

E-200

F-300

G-400

H-500



D-100 VACUUM CLEANER. This rugged little vacuum cleaner weighs only 29 lbs. and is very inexpensive yet gives big-machine performance in both wet and dry pickup. Permanently lubricated $\frac{1}{2}$ hp Universal type motor and high-speed, 2-stage turbine create a powerful 66" water lift. Sturdy all-steel welded tank holds $3\frac{1}{2}$ gallons wet, $\frac{1}{2}$ bushel dry material. Overflow safety-fuse protects motor from risk of flooding from overfull tank. U/L listed for wet or dry pickup.

30', 18-gauge 3-conductor safety type cable has built-in strain reliever to cushion against sudden pulls and strains. Standard attachments include intake adaptor and 8' x $1\frac{1}{2}$ " hose.

The D-100 vacuum and LITE-12 floor machine make an ideal maintenance team for office buildings, doctors' offices, stores, show-rooms, motels, etc. A vacuum with similar specifications but for dry use only is available as Model D-110.



E-200 VACUUM CLEANER. The versatile E-200 is equally qualified for heavy duty cleaning of boilers or freight cars as for cleaning a delicate switchboard wiring system . . . equally effective for mopping up liquids as for pickup of dust . . . equally adept at spraying paint as blowing dirt from hard-to-reach interiors of electric motors.

Permanently lubricated Universal AC-DC 115V, $\frac{1}{2}$ H.P. motor drives twin turbines which develop 45" water lift. U/L listed for both wet and dry pickup.

20-gauge all-welded steel tank holds 10 gal. liquid or $1\frac{1}{2}$ bu. of dry material. 4 swivel casters let the 45 lb. E-200 roll freely in any direction. Built-in strain reliever protects 30', 18-gauge 3-conductor non-marking rubber cable from sudden pulls. Easy on-off clamps hold tank cover snugly in place to preserve suction. Standard equipment includes a 10' x $1\frac{1}{2}$ " white flexible hose, intake adaptor.



F-300 VAC BLOWER. 2 machines in 1! An efficient all-purpose industrial vacuum cleaner with a 16 lb. detachable power head which may be removed for use as a powerful portable blower.

Excellent for either wet or dry pickup . . . furnace, boiler and chimney cleaning . . . blowing operations including motors, switchboards, and other sensitive electrical equipment . . . vacuum cleaning and blowing in cramped places where there's too little room for vacuum tank.

Permanently lubricated, heavy duty 1 hp 115V AC-DC motor creates suction of 43" maximum water lift or blows 220 cubic feet of air per minute.

Heavy 20-gauge rolled steel tank holds full 10 gallons wet or $1\frac{1}{2}$ bushels dry material. 22' 16-gauge 3-conductor safety type cord is protected with built-in strain reliever. Easy on-off tank clamps provide airtight seal, yet unsnap with a flick of the fingers. Standard equipment includes a 10' x $1\frac{1}{2}$ " white flexible hose, intake adaptor.

G-400 VACUUM CLEANER. Here is a big, high capacity, high-quality, medium-priced vacuum cleaning machine that has unusual pickup power.

The G-400's powerful 1 hp 115V AC-DC by-pass motor develops a 63" water lift with closed orifice. Permanently lubricated at the factory. Two-stage turbine.

The 20-gauge steel tank, finished with baked enamel, holds 10 gallons liquid, $1\frac{1}{2}$ bushels dry material. Built-in strain reliever protects 16-gauge, 3-conductor safety cable from sudden jerks. Mounted on 2 ball bearing swivel casters on front, and 2 8" wheels in back. Standard equipment includes a 10' x $1\frac{1}{2}$ " white flexible hose, intake adapter.



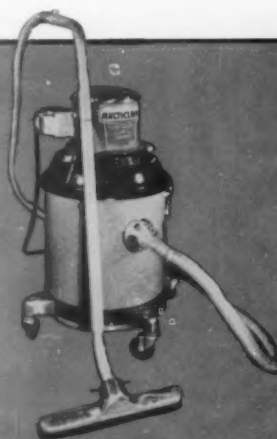
H-500 EXPLOSION-PROOF VACUUM CLEANER

The H-500 is an explosion-proof, portable industrial vacuum cleaner listed by Underwriters' Laboratories for Class 1, Group D, and Class 2, Group G, locations.

It features a powerful $\frac{3}{4}$ H.P. motor which drives a 2-stage turbine to create a waterlift of 62 inches for fast pickup of either wet or dry material. It is mounted on 4 ball bearing casters. Tank capacity is 10 gallons wet or $1\frac{1}{2}$ bushel dry. Filters available for either wet or dry operation. All parts and accessories made of spark-resistant brass or aluminum.

SPECIFICATIONS

Motor	115 volt Universal AC/DC
Hp rating	$\frac{3}{4}$
Water lift (closed orifice)	62"
Cable	40', 3-conductor, 14-gauge



WHY THE MULTI-CLEAN METHOD

WILL BENEFIT YOUR FLOORS

The famous MULTI-CLEAN METHOD was developed and perfected after many years of research and testing by practical floor scientists. It is more than a machine ... more than a material. It is a *complete program* which includes the right machine, the right material, the right technique, and a trained distributor.

1 THE RIGHT MACHINE... MULTI-CLEAN Floor Machines and Vacuum Cleaners, described elsewhere in this folder, are finely engineered machines designed to do a wide variety of jobs quickly and efficiently. Each is available in a number of sizes and models so that no matter what your situation, there is a MULTI-CLEAN machine that will fill the requirement.



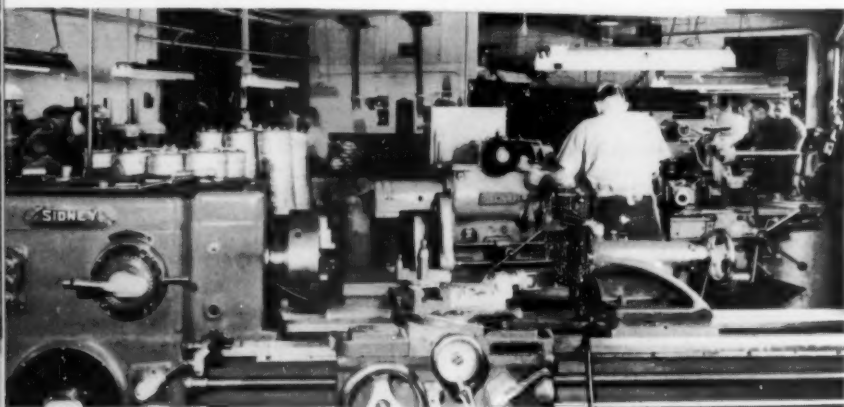
3 THE RIGHT TECHNIQUE... Even the best machines and best materials will not give you maximum performance unless properly used. The MULTI-CLEAN METHOD includes a recommended technique... a specific way of using the machines and materials that enables you to receive full benefit from the labor and cost-saving potential while you preserve the beauty and life of your floors.



2 THE RIGHT MATERIALS... MULTI-CLEAN's 25 different floor treating liquids include cleaners, sealers, waxes, and shampoos specially developed for wood, concrete, asphalt or rubber tile, terrazzo, linoleum, magnesite, or carpeting. For best results, these should often be used as a team. For example, a terrazzo floor should first be cleaned with MULTI-CLEAN Super Safety Cleaner, next treated with MULTI-CLEAN Terrazzo Sealer, then finished with MULTI-CLEAN Waterproof Wax or Deep Glow Wax.



4 A TRAINED DISTRIBUTOR... Your MULTI-CLEAN Distributor is an experienced floor expert who can help you plan and supervise your complete floor program. He has received careful factory training in floor maintenance under the very men who developed and perfected the world-famous MULTI-CLEAN METHOD. He will be glad to demonstrate MULTI-CLEAN Equipment, Materials, and Techniques on your floor. He is a local businessman and maintains local stocks. He comes quickly when you need him.



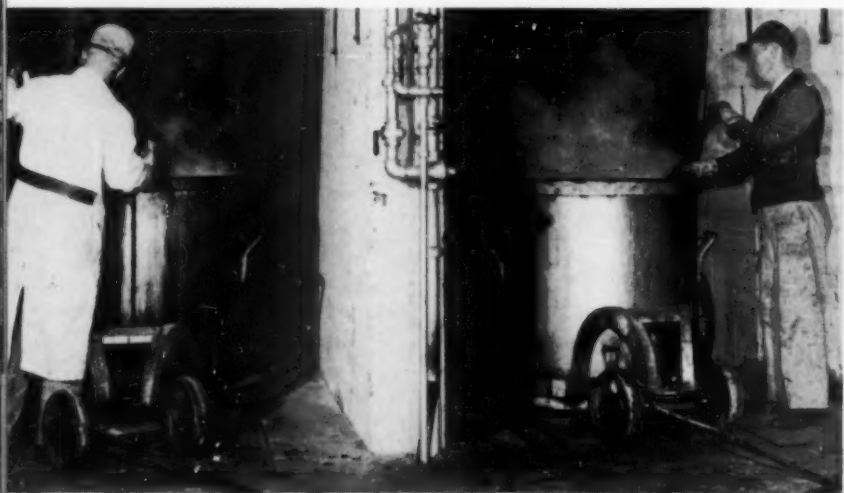
ABOVE. Here, in MULTI-CLEAN's big, modern machine shop located in St. Paul, Minnesota, workmen take pride in manufacturing Floor Machines, Scrubbing Machines, Industrial Vacuum Cleaners, and other MULTI-CLEAN equipment to the highest standards.

BELOW. Careful temperature control at all stages of processing is reason why you can depend on MULTI-CLEAN Waxes, Sealers, Preservers and other liquids to be of uniform, high quality.



ABOVE. In MULTI-CLEAN's famous Research and Development Laboratory, experienced chemists are creating and testing materials which will give your floors greater beauty and longer life, at the same time they are reducing upkeep.

BELOW. MULTI-CLEAN maintains adequate stocks of materials and machines in order to guarantee prompt delivery of all standard items.





H-1/Mu

PRODUCT	USE ON...						DESCRIPTION	COVERAGE Approx. Sq. Ft.
	Asphalt	Rubber Tile	Concrete	Terrazzo	Wood	Linoleum		
 Waterproof Floor Wax	•	•	•	•	•	•	12% min. solids. Carnauba Wax emulsion. Available with anti-slip additive. Listed by U/L and approved by York Research Corp., Rubber Mfg's Ass'n. Meets or exceeds Asphalt Tile Inst. specs.	1250
Deep Glow Wax	•	•	•	•	•	•	Self-polishing, almost colorless, water-resistant. Listed by U/L and approved by Rubber Mfg's Ass'n. Meets or exceeds Asphalt Tile Inst. specs.	1250
Liquid Spirit Wax			•	•	•	•	Blend of Carnauba and mineral waxes with special resins. 11% minimum solids. Choice of 7 colors.	1250
Kwik-Color Wax			•				Waterproof emulsion wax containing colored emulsified plastic resin. Protects and beautifies floors after Kwik-Color Seal has been applied.	1000
 Super Safety Cleaner with HCP	•	•	•	•	•	•	Cocaoanut oil base with high cleaning power additive. Available with germicide. Approved by York Research Corp. and Rubber Mfg's Ass'n. Meets or exceeds Asphalt Tile Inst. specs.	varies
Blue Blazes Cleaner with HCP	•	•	•	•	•	•	Safe, heavy-bodied synthetic cleaner with pH-7 in concentrate. Approved by Rubber Mfg's Ass'n. Meets or exceeds Asphalt Tile Inst. specs.	varies
Wax Remover	•	•	•	•	•	•	Removes wax by re-emulsification (the only safe method). pH-9 in concentrate. Meets or exceeds Asphalt Tile Inst. specs.	varies
Removeoil			•	•	•		Spirit-soluble soap highly effective for removing oil and grease from wood, concrete, metal surfaces.	varies
Gym Finish			•		•		Contains Bakelite, tung oil. 40% non-volatile. Anti-slip. Listed by U/L and approved by Maple Flooring Mfg's Ass'n.	600
Penetrating Seal			•		•		Contains Bakelite, tung oil, 30% non-volatile. Anti-slip. Listed by U/L and approved by Maple Flooring Mfg's Ass'n.	600
Floor Preserver			•		•		Emulsion-type seal. Vegetable resin and tung oil. Can be wet-buffed. 35% non-volatile. Use as base for wax. Approved by Maple Flooring Mfg's Ass'n.	600
Bakery Floor Preserver			•		•		Contains pure phenolic resin and tung oil. 40% non-volatile. U/L listed.	600
Seal and Varnish Stripper			•	•	•		Colorless. Non-inflammable. Toxic. Removes seal and varnish, but not wax. Does not require an after rinse.	100
Kwik-Color Seal			•				Contains an emulsified plastic resin. Gives controlled penetration. Prevents concrete dusting.	800
Concrete Preserver			•				Contains Bakelite, tung oil, inorganic pigments. Withstands spillage of petroleum products. Natural and 6 non-fading colors. U/L listed.	400
Neo Dry Concrete Seal			•				Rubber base, inorganic pigment. Resists alkali, corrosion. Available in clear and 7 non-fading colors. Anti-slip product U/L listed.	400
Concrete Hardener and Etcher			•				Cleans, etches, hardens in one operation. Controls dusting of concrete. Prepares concrete for sealing.	100
Terrazzo Seal			•	•			Contains non-yellowing, crystal clear plastic resin. For surface or sub-surface finish. Anti-slip product U/L listed.	1000
Asphalt Tile Preserver	•						Contains non-yellowing plastic resin. Dries in 30 minutes. For surface or sub-surface finish. Anti-slip product U/L listed.	1200
Super Flor-Treat	•	•	•	•	•	•	Odorless water emulsion of non-yellowing plastic resin. Approved by Rubber Mfg's Ass'n and listed by U/L. Meets or exceeds Asphalt Tile Inst. specs.	1000
Floor Dressing	•	•	•	•	•	•	Floor and mop dressing. Cleans, polishes, preserves. Listed by U/L.	varies



Synthe-Clean Rug Shampoo. Inexpensive synthetic base product which does thorough rug-cleaning job without wetting through to the backing. Odorless, colorless, leaves no residue, needs no rinsing. Dilutes 16 to 1.

Karpetreet. Synthetic base soil retardant shampoo using Dupont's Ludox®. Dilutes 4 to 1.

Rug Shampoo. Cleanses and beautifies any rug or carpet in one economical operation. Has rich cocoanut oil base. Harmless as water to all fabrics. Non-corrosive, non-flammable,

non-explosive. Rugs dry fresh and fluffy with no lingering soap odor.

Upholstery Shampoo. Renews upholstery fabrics quickly, easily, safely. Gives new life and beauty to soiled clothing, tapestries and automobile upholstery. Finest synthetic detergent... contains powerful cleaning agents yet can be used with complete safety. Dries clean without rinsing. Leaves fabric fresh, crisp, clean.



MULTI-CLEAN "Professional" PORTABLE CLEANING UNIT

● The "Professional" is a compact, easy-to-carry unit that contains everything needed for on-location scrubbing and shampooing of upholstery, stair carpeting, automobile interiors and dozens of other fabric cleaning jobs.

The light-weight cleaning head consists of a self-contained 150 watt motor, and 5" nylon brush. Finger-tip location of motor and solution controls, along with its light (6 lbs.) weight, enable an operator to use the machine for many hours at a time without tiring. Controls are adjustable for use by right or left-handed operators.

The 30' gray, non-marking, 3-conductor cord and 12' clear plastic solution hose are extremely flexible to allow use in corners and hard-to-reach places. Hose is both acid and alkali resistant.

Built-in tank is corrosion resistant and holds 2¾ gallons of solution. It has a built-in pump which has a capacity of pumping 1 gal. per minute insuring constant flow of solution to the brush. This means there are no valves to leak, no compressor to break — virtually trouble free.



MULTI-CLEAN Add-A-Tank

● This is an inexpensive accessory which quickly converts any industrial vacuum cleaner into a heavy volume machine for cleaning out boiler flues, furnaces, fire boxes, chimneys, grain elevators, milling machinery, or wherever there are large quantities of material to be picked up. Also recommended for use in explosion hazard areas.

The ADD-A-TANK cover fits any standard 30-gallon or smaller ash can to provide an extra receiving tank between the pickup tool and the vacuum cleaner itself. This offers important advantages.

FIRST, it protects the vacuum cleaner because practically all the ashes or other material are deposited in the additional tank without reaching and clogging the vacuum. SECOND, where there is danger of explosion, the ADD-A-TANK may be used safely in the danger area while the vacuum cleaner is kept safely outside.

ADD-A-TANK accessory includes a complete cover plate assembly, adjustable flue cleaner tool, 10'x1½' black hose, two 4' extension handles, 2' flex joint, three right angle connectors, and an 8" adjustable wire brush tool for flue cleaning.



KON-VERT-O VAC #801729

● This Kon-Vert-O Vac cover assembly will convert any 30 or 55 gallon open head drum into a large capacity vacuum. Ideal for cleaning out sumps, picking up large volume of liquid or dry material and many other jobs. Can be used with any of the MCV Series 1 hp or 1½ hp head assemblies (see page 4) and G400 head assembly (see page 5).



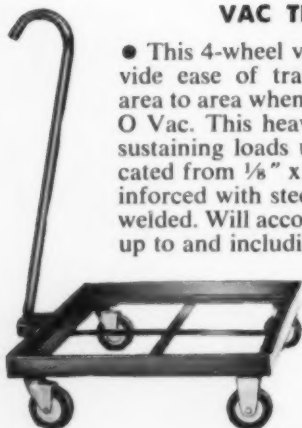
KON-VERT-O VAC #801636

● This Kon-Vert-O Vac cover assembly will also fit any 30 or 55 gallon open head drum and will perform the same function as the 801729 except that it can only be used with the F-310 power unit. Ideal for all vacuum jobs, whether wet or dry.



VAC TRUCK #801842

● This 4-wheel vac truck is available to provide ease of transportation of drum from area to area when used with above Kon-Vert-O Vac. This heavy duty truck is capable of sustaining loads up to 800 lbs. and is fabricated from ½" x 2" x 2" steel angle iron, reinforced with steel bars ½" x 1¼" and then welded. Will accommodate any size container up to and including a 55 gallon drum.



MULTI-CLEAN Products are sold only through local MULTI-CLEAN Distributors, who maintain local stocks and will serve you quickly when you need supplies or help on difficult floor care problems.

BREUER ELECTRIC MANUFACTURING CO.

5130 North Ravenswood Avenue, Chicago 40, Illinois

TORNADO®

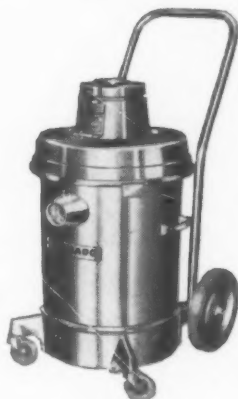
THE CLEANING EQUIPMENT DESIGNED TO SOLVE

School Cleaning Problems

SERIES 300

QUIET TYPE INTERNAL FILTER

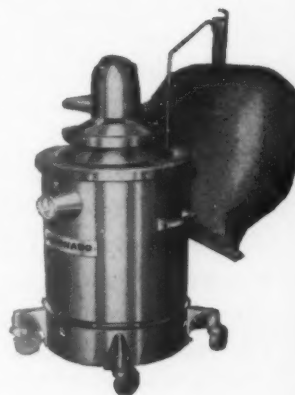
For wet or dry pickup. Heavy duty 1 H.P. bypass motor with 3 stage fan. Available with stainless steel or baked enamel tanks. Equipped with 4 caster wheels or 10" carrier wheels and handle.



SERIES 400

HEAVY DUTY WITH REMOVABLE MOTOR UNIT

A heavy duty industrial cleaner with $\frac{3}{4}$, 1 or $1\frac{1}{2}$ H.P. removable motor. Wet or dry pickup. Uses $1\frac{1}{2}$ " or 2" hose—complete attachments available. Motor also doubles for Blower, Pac-Vac or Sprayer.



NEW! SERIES 140 LIGHTWEIGHT COMMERCIAL CLEANER

New lightweight cleaner with commercial ruggedness of larger cleaners. Wet or dry pickup. $\frac{1}{2}$ H.P. motor. Total weight $24\frac{1}{2}$ lbs. Available with either $1\frac{1}{4}$ " hose or $1\frac{1}{2}$ " hose, and attachments.



NEW! PAC-VAC

Pac carried vacuum cleaner or air sweeper on sturdy, comfortable tube frame. Uses regular Tornado motor unit in $\frac{3}{4}$, 1 or $1\frac{1}{2}$ H.P. For floors, fixtures, overhead vacuuming or air sweeping auditoriums, gymnasium seating, outside corridors and sidewalks.

SERIES 900

FLOOR MACHINES

Complete line of heavy duty floor machines furnished in brush sizes of 14", 16", 18" and 22", with motors from $\frac{1}{2}$ H.P. through 1 H.P. Solution tank and many types of brushes available.



SERIES 130

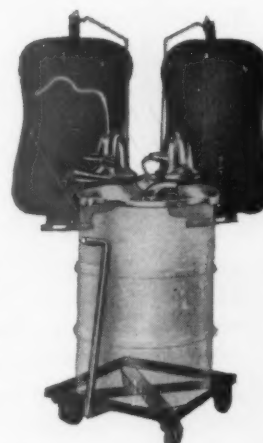
LIGHTWEIGHT FLOOR MACHINES

13" brush size in a light, easy-to-use floor machine.

55 GALLON JUMBO CONVERSION

A cleaning unit that fits on ALL of YOUR standard 55 gal. drums

Use this Jumbo Conversion Cover on any of your standard 55 gallon drums. Cover accommodates 1 or 2 regular Tornado motor units for a total of 3 H.P. Uses $1\frac{1}{2}$ ", 2" or 3" hose. 4 wheel dolly also available. Use for boiler tube and furnace cleaning.



WRITE OR PHONE FOR LITERATURE
AND A FREE DEMONSTRATION

CASSIDY PRODUCTS, INC.

2285 University Ave. • St. Paul 14, Minn.

Improved Maintenance Tools for every floor

25 years experience in floor machine and industrial vacuum design culminated in the new Cassidy floor machines and vacuum cleaners. Such operator benefits as the toe-touch handle adjustment on all floor machines, wide wheel base and twin tube handles for better machine balance and control.

SPECIFICATIONS

Floor Machines Models 12, 14, 16, 190

Wide Wheel Base—7" centers for easy handling, rolls easy, will not tip.

Toe-Touch Handle Adjustment—Eliminates stooping for adjusting from rigid to floating handle operation.

Operator Fatigue Reduced by Handle Design—Twin tube construction eliminates torque for ease of operation.

Models 12, 14

Motor— $\frac{1}{3}$ h.p. Motor with plenty of power for scrubbing floors and carpets. Heavy duty special helical cut gears, mounted on ball bearings.

Model 16— $\frac{3}{4}$ h.p. heavy duty helical cut gears.

Model 190—1 h.p. heavy duty helical cut gears.

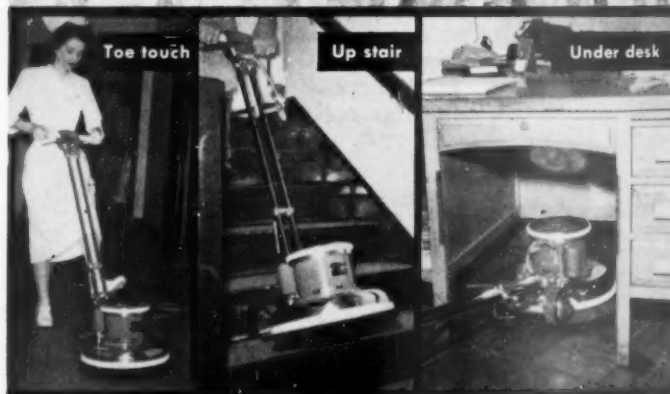
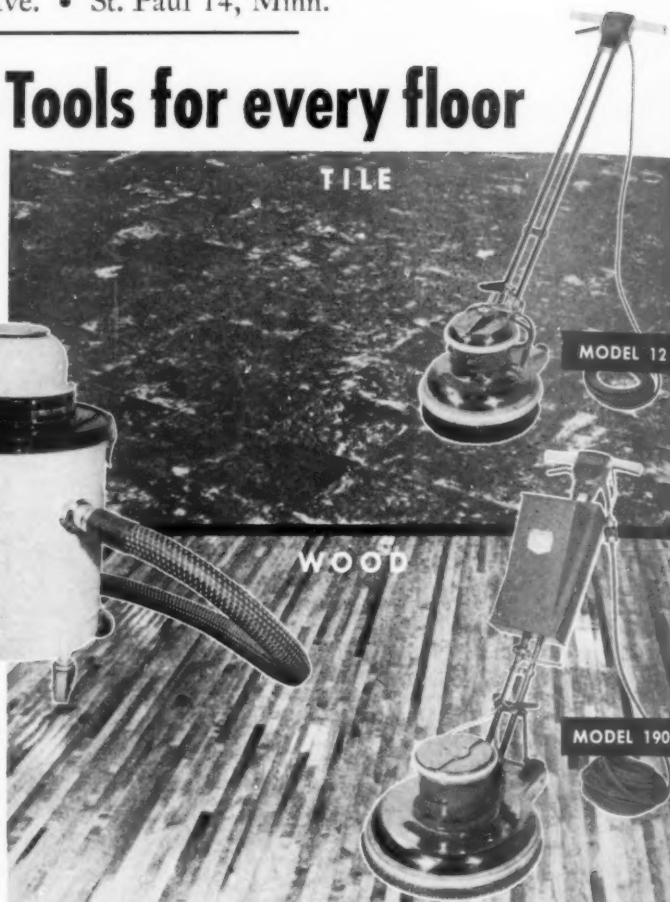
All Chrome Finish on Machine

Soft Plastic Bumpers—Non marking bumpers on base and motor.

Models 12, 14, 16, 190

Cord—Grey non marking three conductor cord.

MODEL
No.
1000



SPECIFICATIONS

Wet or Dry Vacuum Cleaners Models 600, 800, 1000

Air Cooled Motors—Separate air intake protects motor from moisture and dust laden air. Excellent for water pick-up.

All Welded Steel Tank—Enamel finish, stainless steel or plastic coat finish.

Latches—Quick operating tank latches. Cadmium plated dolly with 8" wheels for easy mobility. Fast operating hose connections. Plastic hose $1\frac{1}{2}$ " diameter, 8-10 ft. lengths: Non marking grey 3 conductor cord.

SQEEG-O-MATIC

The new attachment will pick up scrubbing solutions or dry dirt as fast as operator can walk, covering a 30 inch strip. Any make of industrial vacuum cleaner in sizes from 5 to 35 gallon capacities will fit the Sqeeg-O-Matic Vac-Kart and can be attached or detached in seconds.

Write factory for descriptive literature and name of your local distributor.



CLARKE SANDING MACHINE COMPANY

475 East Clay Ave., Muskegon, Michigan

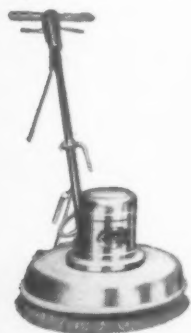
Authorized Sales Representatives and Service Branches in Principal Cities

Distributed in Canada: G. H. Wood & Co., Ltd., P.O. Box 34, Toronto 14, Ont.



THERE'S A CLARKE MACHINE FOR EVERY FLOOR CARE NEED!

FOR SCRUBBING, waxing, polishing, plus steel wooling, disc sanding, grinding and rug shampooing, the versatile Clarke Floor Maintainer is the answer. It's fast and easy to operate—with adjustable handle and fingertip safety controls. And it's made in six sizes, 12" to 23" brush diameters, to fit every floor job.



P-23
Brush Diameter 23"
Motor 1 hp
Weight 137 lbs.



FM-13
Brush Diameter 13"
Motor 1/2 hp
Weight 36 lbs.



Model 620
Capacity
15 gal. wet
1 7/8 bu. dry



Model 600
Capacity
2 1/2 gal. wet
1/2 bu. dry

FOR POWERFUL PICKUP, wet or dry, Clarke's vacuum cleaners do every job quickly, thoroughly and easily—clean everything from floor to ceiling including draperies, furniture and even furnace boilers. They're designed with an array of efficiency features that slash cleaning costs and make Clarke vacuum cleaners the most outstanding in the field. Job-fitted models with capacities from 2 1/2 gal. wet, 1/2 bu. dry to 50 gal. wet, 6 1/4 bu. dry—one just right for your needs.

FOR BIG JOBS, large floor areas, the startling new, self-propelled Clarke-A-matic Floor Maintainer handles maintenance with ease. It automatically meters solution, scrubs, rinses, picks up and dries—all in one easy operation. It gives clean, safe, sanitary floors ten to twenty times faster than mopping—scrubs up to 28,200 sq. ft. per hour. Two models, 26" and 30." Electric, propane or gasoline powered.



FOR ANY FLOOR there's a Clarke floor care machine that's just right for the job. In the Clarke line of job-fitted maintainers, vacuum cleaners and combination machines—plus Smoothie Sanders and Duo Sander-Polishers for woodwork and furniture—you'll find a machine to fit your exact maintenance requirements. And when you choose a Clarke machine, you can be sure of easy, thorough maintenance, cost-cutting efficiency and real long-run economy. Ask for a demonstration. Write to Department 475 for details.

GENERAL FLOORCRAFT, INC.

421 Hudson St., New York 14, N. Y.

Established 1930

AMERICA'S MOST COMPLETE LINE OF FLOOR POLISERS AND FLOOR MAINTENANCE EQUIPMENT

first* see *General* Floorcraft's Amazing new floor maintenance machines - *then* *decide!

General's KC Popular Price Models With These New **PLUS** Features!

GENERAL FLOOR
MACHINES
AVAILABLE IN
FULL RANGE OF
SIZES FOR
EVERY
FLOOR JOB

Also Available
KR Series
Powered by Repulsion-
Induction Motor



1. EZEE-ADJUSTO HANDLE—fully adjustable for space-saving storage, for height of any operator, or for pivotal operation.
2. EZEE-ROLL WHEELS — two 6" wheels, with semi-pneumatic tires.
3. WRAP-A-ROUND BUMPER—made of non-marking white rubber.
4. AUTO-MATE SAFETY SWITCH—for right or left hand operation.
5. NON-MARKIT grey rubber cord.
6. CAPACITOR-START TYPE MOTOR.

Don't expect the same results from any type of equipment. For true Floor Maintenance MECHANIZATION, insist on GENERAL! For more than a quarter of a century GENERAL has consistently built Quality into its Floor Machines. Each GENERAL has every proved improvement engineering skill has created:

- PRECISION ENGINEERING
- RUGGED CONSTRUCTION
- MAINTENANCE-FREE OPERATION
- PERFECT BALANCE—LOW CENTER OF GRAVITY
- ALL CORROSION-RESISTANT POLISHED METALLIC SURFACES

EACH MACHINE PAYS FOR ITSELF WITHIN A YEAR! Whatever your Floor Need . . . GENERAL-ize!

GENERAL'S TWIN POLISHER-SCRUBBERS

Versatile, light, quiet—ideal for small schools and otherwise inaccessible areas. Perfect where heavier machines are not necessary.

Twin-16B — 16" brush spread, 1/2 h.p. motor.



GENERAL'S NEW HEAVY DUTY WET & DRY E-CON-O-VAC COMMERCIAL VACUUM CLEANERS

All-New!

Full swivel hose connection for both intake and exhaust (blower). Both intake and exhaust openings in head. Durable integral cast aluminum head. Recessed "out-of-the-way" carrying handles. Big 8" heavy duty 1 3/4" resilient wheels. For both wet and dry pickup, with no changes necessary.



Dual use—as vacuum, and powerful blower. Convenient push-pull handle. New, more powerful by-pass type motors. New, "Quick Fasten" floor tools and other accessories. Convenient attached utility basket.

Models 77, 88, 99

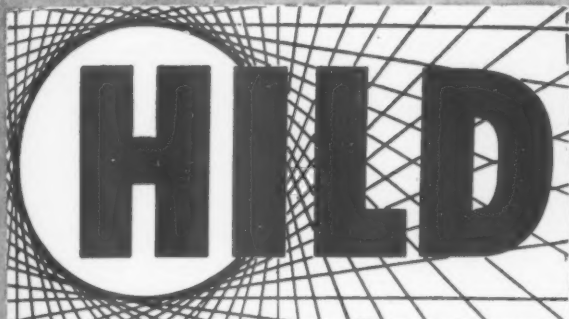
SEND FOR PRICE LIST and LITERATURE. Address Dept. AU58.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

HILD FLOOR MACHINE COMPANY

1217 W. Washington Blvd., Chicago 7, Illinois

Factory Branches: 250 East 43rd St., New York 17, N. Y.; 4271 W. Third, Los Angeles 5, Calif.; 2307 Puritan Avenue, Detroit, Mich.
Export Department: 10406 South Western Avenue, Chicago 43, Illinois.



PROVEN BY PERFORMANCE

**Floor Machines and Vacuum Cleaners Serving YOU
for Over a Quarter of a Century!**

Hild maintenance equipment has been used in the finest hotels, schools, hospitals and restaurants for thirty years. Leading executive housekeepers and maintenance men recognize the "Bonus-Built" features available only in Hild machines . . . they know from experience that Hild machines are easier to handle, do a better job and are almost impossible to wear out. Many Hild machines have been in use for the past 30 years and are still going strong.

Here are the new 1958 Hild models—over fifty different machines available to handle every possible floor and carpet maintenance job. Write for complete information and a FREE demonstration.

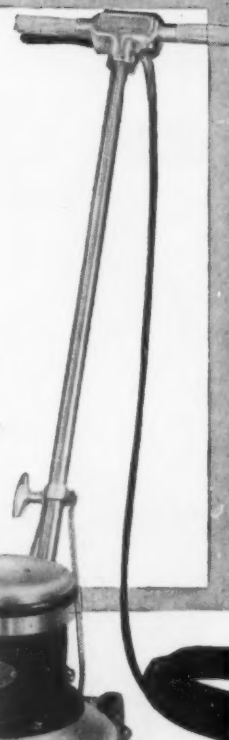


ALL ALUMINUM VACUUM CLEANER Weights Only 19 Pounds

Wet and dry model light enough for women to carry, but with same dependable performance as large industrial models. For use with 1½" or 1¼" hose and tools.

LUCKEE 13 Lightweight Scrubber-Polisher

Completely new 13" floor machine designed and built just like the larger Hild models. All deluxe features—adjustable handle, safety switch, wide non-marking bumper and interchangeable brush attachments. Shower-feed model available with tank on handle for fast scrubbing.



VERSATILE VACUUM CLEANER

Powerful twin motor model for use with any 55 gallon drum. Handles tough wet or dry cleaning jobs with 1½", 2" or 3" hose.



NEW FLOOR AND RUG SCRUBBER

Famous Hild Shower-feed machine with new low design—enables operator to get under hospital beds, desks and chairs for fast cleaning. Eight different models.



UL LISTED EXPLOSION PROOF VACUUM CLEANER

Explosion proof vacuum cleaners for use in hospital operating rooms and other hazardous locations. Wet and dry pickup. Available in 10, 15, 30 and 55 gallon models.



WRITE FOR COMPLETE INFORMATION

HOLT MANUFACTURING CO.

669—20th St., Oakland 12, Calif., 272 Badger Ave., Newark 8, N. J.

HOLT Work-Saving Machines

*maintain floors
easier, faster, safer*

These exclusive Holt maintenance machine features enable operators to cover more "ground" and work with less fatigue:

Toe-operated adjusting and locking clamp eliminates stooping. Stowaway handle locks upright to save storage space. Safety hand-grip switch stops machine instantly, prevents runaways. Patented static eliminator wire prevents shocks to operator. Non-marking rubber bumpers and cables. Ball-bearing motors, grease-sealed for life; U/L approved.



Holtomatic All-Purpose Polisher. Built especially for heavy maintenance on large floor areas. Dual handles spread load and eliminate effects of torque, make Holtomatic easier to handle on uneven floors, safe around delicate machinery, glass doors and windows. 16, 20, and 24" brush spread. Model HC24E.



Challenger Floor Maintenance Machines come in 2 types: Commercial and DeLuxe. Ruggedly built, competitively priced. Bring you all of Holt's exclusive features. 14, 16, 18, and 20" brush spread. Model CL16C shown.

Other Holt polishers in 13, 14, 16, and 20" brush spreads.



Holt Tank-On-Handle plus Whirlwind spray brush quickly converts any Holt floor polisher to efficient, fast-working scrubber or rug shampoo machine.

8 quick-change attachments enable you to buff, sand, wax, steel wool, scrub, remove stubborn dirt—all with one Holt floor maintenance machine.



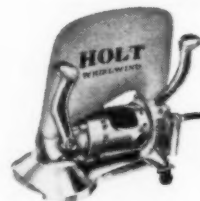
Holt Heavy-Duty Vacuum has 63-inch water lift, handles both wet and dry pick-up. Recommended for wet pick-up when completing rug scrubbing and shampooing; wet clean-up of floors; heavy-duty dry pick-up. 15-gallon tank rust and corrosion-proofed. Easily converted to blower. Models VA6, 2½ gal., and VA7, 7 gal. for medium-duty jobs.



Holt Whirlwind Upholstery Scrubber can't be beat for scrubbing and shampooing upholstery, small rugs, hard-to-reach corners and stairway runners. Marine-type pump provides positive solution feed to brush—no hand pumping. Motor and solution regulated by brush head controls for instant shut-off—no danger of flooding. 7-gallon tank; weight 70 lbs., easy to handle.



Refinish floors yourself with **Holt Sanders**. Easy to handle, smooth operating. Quick-change, patented demountable drum cushion protects you against downtime. Dust-free vacuum pick-up. 8" and 12" cuts.



Holt Rotary Edgers make easy work of sanding edges, corners, stairs, closets, desk tops, etc. 7-inch sanding disc.

For the right model to master your floor maintenance jobs, see your nearest Holt dealer...or write us for descriptive literature and prices.

SALES AND SERVICE CENTERS IN MAJOR CITIES.

HOLT MANUFACTURING CO.
BETTER FLOOR MACHINES
FOR MORE THAN 30 YEARS

669 - 20th St., Oakland 12, Calif., or 272 Badger Ave., Newark 8, N. J.

THE KENT COMPANY, INC.

174 Canal Street, Rome, New York

KENT Cuts Labor Costs 18.9%



Time after time, in competitive tests, Kent Floor Machines outperform other makes, cutting labor costs by up to 18.9%. A major user of floor machines, who recently standardized on Kents, reports: "On 40-acre floor area, the Kent 17" will save 6142½ minutes—102 man-hours per 5-day week."

Kent Double Suction Furnace and Boiler Cleaner Prevents Heat Loss from Soot

A 3/16" soot deposit reduces boiler surface conductivity by 69%. Keep your boilers efficient with Kent Double Suction Furnace and Boiler Cleaner. Vertical design separates dust, soot and scale from air by gravity. No soot or dirt can pass through fans.



Kent Turbo-Vac With Drum Seal . . . Where Extra Capacity Is Needed

For boiler-cleaning, for water-removal in flash-floods, for other uses demanding extra large recovery capacity, combine the Kent Turbo-Vac vacuum cleaner with the Kent Drum Seal. Set Drum Seal on drum or any other large metal container. Put the Kent Turbo-Vac head on the Drum Seal, and you're ready to go. Soot, dirt, water, etc., go directly into drum, giving recovery capacity equal to drum capacity.

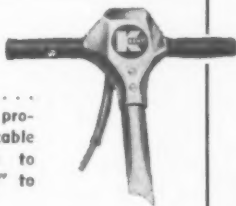
Maximum Power with Minimum Noise

The Kent Triple Power Vacuum Cleaner is six times as powerful as household vacuum cleaners, yet runs more quietly than most household machines. By-pass Motor, with exhaust fans separated from motor by water-tight baffle. Built for years of rugged service but so easy to handle even a small woman can handle it with ease.



Kent New Adjustable Handle

Made of chrome-plated 1½" steel tubing with tapered aluminum control box . . . large handbar switch grip . . . automatic release safety switch. Cable protector at trouble-spot where extension cable connects with equipment. Adjustable to height of operator. Lengths from 40½" to 46½".



Kent Floating Power Guarantees Life of Gears for Life of Machine

Kent cushions gears from shock by floating them in a system of compression springs which act like the clutch in your car. "Floating Power" prolongs gear life so that Kent—and only Kent—GUARANTEES LIFE OF GEARS for LIFE of MACHINE.



Kent Balanced Power

With exclusive offset motor design, counterbalances handle weight, minimizes backward thrust. Kent machines, operated by man or woman, steer with finger tip control, permit faster work, cause less fatigue. Balanced Power makes possible up to 18.9% more work per man-hour than comparable size center motor machines.



Pioneer in Maintenance Equipment Since 1913

Write today for complete details at no obligation.

THE KENT CO., INC.
Rome, N.Y.



WALTER G. LEGGE COMPANY, INC.

The Legge System of Safety Floor Maintenance

Architects' Building, 101 Park Avenue, New York 17, N. Y.

The **RIGHT** product
for the **RIGHT** job

That's how
LEGGE SAFETY FLOOR MAINTENANCE
Saves you money!



The cleaner or polish that performs wonders on the floors of a neighboring building may be all wrong for yours.

LEGGE suits the product to the job. And provides the Free services of a Safety Floor Specialist to see that the job is done right. The LEGGE Man surveys your floors for area, age, composition, condition, amount and type of traffic before making

his recommendations. He examines the equipment available. Then he custom-tailors a program to your needs and works right with your crews.

He'll save you money—up to 33 1/3%—on labor and materials. Your floors will look smarter, last longer. And he'll reduce slip-accidents by up to 98%.

LEGGE SAFETY FLOOR CLEANERS

TEXINOL: An all-purpose concentrate in liquid or jelly for surfaces which cannot be harmed by water. Cleans thoroughly, economically, leaving no slippery film on floors.

LEGSTRIP: Made especially for the stripping of resin-type polishes. Does an excellent cleaning job with no adverse affect to floor.

CLEANER #1: A primary cleaner for vigorous scrubbing before polishing. A concentrated paste compound that cannot mar surface or bleach color.

TEXSPAR: A heavy duty paste concentrate. Effective on cleaning tasks considered too difficult for ordinary cleaners.

TRAFICO CLEANER: A slip-resistant solvent that prepares floors to be polished with TRAFICO or TRAFLECO. Removes dirt, old wax and rubber burn marks.

FLOORSHINE: A 2-in-1 treatment for hard-surfaced floors. Combination cleaner and slip-resistant polish. Also effective as secondary maintenance on other polished floors.

Other cleaners available for specific requirements.

LEGGE SAFETY FLOOR POLISHES

LEGSURE: For all resilient floors. Dries to a lustrous, hard finish without buffing. Scuff-resistant, slip-resistant, dirt and water repellent.

LECO: For linoleum, rubber, asphalt tile, cork, similar resilient floors. Gives high slip-resistant finish despite attractive gloss. Protects floors with durable film. A water-emulsion polish.

SAFCO: For asphalt tile floors. A water-emulsion polish with higher slip-resistance for harder surfaces. Apply either LECO or SAFCO with a mop.

TRAFLECO (or Trafco): For wood, cork, linoleum floors. A tough-wearing polish, ideal for heavily trafficked floors. Slip-resistant. Do not use on rubber or asphalt tile.

Other Safety polishes available for specific requirements. All Legge polishes are listed by Re-examination Service of Underwriters' Laboratories.

Also available are LEGGE Floor Seals for every type of composition; anti-slip products for use in unusual circumstances; damp sweeping implements; conductive coatings and personnel grounding devices.



**MAINTENANCE OF
CONDUCTIVE FLOORS**

Many waxes and polishes form a hard coating that insulates the actual surface of the conductive floor from static-generating personnel and machinery. Contact is lost—static charges are no longer dispersed safely into the floor. Ordinary cleaning compounds also tend to insulate the conductive floor.

LEGGE Polishes, Cleaners and Seals are made to *retain* conductivity. Leading hospitals, government installations and factories use LEGGE materials to avoid loss of contact, loss of ohm resistance. Listed by Underwriters' Laboratories, they also conform with NFPA Code #56.

Branch offices in principal cities. Write today for full information and free booklet.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

LOUISVILLE LADDER COMPANY

1101 W. Oak St., Louisville 10, Ky.

A COMPLETE LINE OF ALUMINUM LADDER PRODUCTS

STRAIGHT LADDERS

Safe-Weight

Special extruded angle roll sections provide hand surfaces . . . corrugated rungs for good footing . . . riveted construction . . . reinforced rung assembly. Lengths to 24 feet.

AMERICAN STANDARD

New "I" beam design, meeting minimum requirements for ASA Safety Code. Lighter in weight. For greater strength than ordinary aluminum ladders, yet priced very little more. Lengths to 24 ft.



DON'T RISK THIS



INSIST ON RUGGED LOUISVILLE LADDERS

Don't take chances with "price" ladders. Step up with confidence on UL-approved Louisville aluminum ladders, planks and stages—the equipment with safety built-in! Check the yellow pages for nearest distributor, or write us direct for catalog.

EXTENSIONS (2-SECTION)

Safe-Weight

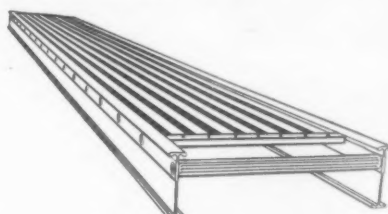
For heavy duty service. Open web, angle side rail construction with outside slide guides permitting easy separation of sections and trouble-free operation. Base flared for greater stability. Rope and pulley hook-up available. Lengths to 40 feet.

AMERICAN STANDARD

Solid "I" beam side rail. Gravity-type locks span two rungs, hold ladder securely in working position. New turned-down flange provides extra strength at overlap points. Easy separation permits use of sections as individual straight ladders. Lengths to 48 ft.



SWING STAGES



Rugged, light weight units for suspending in swing stirrups or bridging steel girders. Knurled "C" channel decking features reinforcing ridges. Solid "I" beam side rail. Available in 8 to 32-foot lengths, and widths of 20 and 24 inches. Cable truss on all stages over 24 feet. Guard rails available.

SCAFFOLD PLANKS

Same construction as swing stages. Standard width: 12 inches. Lengths to 32 feet. Will fit into standard ladder jacks.

STEP LADDERS

MASTER PLATFORM

A light weight platform step ladder available in sizes 4, 6, 8 and 10 feet. Top shelf slotted for holding small hand tools. Size indicates length to platform only—overall ladder length is 2 feet longer.



MASTER STEP

A heavily braced step ladder for industrial maintenance service. Ribbed extruded side rails. Non-slip tread on steps features saw-tooth serrations. Corrugated rubber pads on all floor contact points. Big back legs fully braced. Sizes 3 through 14 feet.



Safe-Weight H. D. STEP

The ultimate in rugged step ladders. Designed for heavy industrial uses. Double rungs on front, corrugated for sure footing. Top is cast aluminum with raised diamond tread. Corrugated rubber feet. Folding braces are heavy-gauge cadmium-plated steel. Sizes 4 through 20 feet.



MECHANIC STEP

Made with two front sections of Master Step and joined at top with heavy-duty steel hinges. Top step designed to hold 12" scaffold planks. Sizes 4 through 14 feet.

ROLLING SCAFFOLDS TRESTLES, SECTIONALS

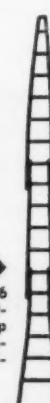


EXTENSION TRESTLE

Manufactured to ASA specifications for slope, width, hinge joints, spreaders and rung spacing. Lengths: 6 through 16 feet.

SECTIONAL

Standard section lengths are 6 feet. Base sections flared at bottom; center sections tapered, top sections narrow to 4 inches. Inspector's 4-ft. sectionals available.



ROLLING SCAFFOLD

A sturdy, easily handled, rolling work platform for painting, cleaning, etc. Ladder frame, light weight, simple to erect, stores compactly.

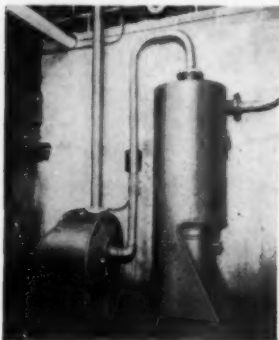


THE SPENCER TURBINE COMPANY

486 New Park Avenue, Hartford 6, Connecticut

There's a **SPENCER Vacuum** for Every School Cleaning Need

VACUUM CLEANING



A Spencer stationary vacuum cleaning system, consisting of centrally located vacuum producer and dirt separator . . . with piping and outlets throughout the building . . . permits *engineered housekeeping* that is quick, easy, economical and assures *positive sanitation*. Available in a complete range of sizes from 1 HP through 100 HP to meet individual requirements. Request Catalog 133 for complete specifications.



PORTABLE VACUUM CLEANERS



A size for every requirement. Models from 1/2 HP up. All feature shake-out of bag inside the machine, making for cleaner handling and preventing escape of dust or germs. All feature patented swivel elbow joint—exclusive with Spencer—which makes cleaning faster and less tiring.

Spencer portables are adaptable to water pick-up and cleaning of dry mops . . . have simple cam release for quick, easy removal of dirt can.

Spencer portables—which provide more cleaning power per dollar—are described in Bulletin 114-J.

SWIMMING POOL CLEANING

Special Spencer tools—generally used in conjunction with pump on filtering system—permit removal of sediment without draining of pool. Request Bulletin 139.



New color movie illustrates the many uses which schools make of Spencer Vacuum. Request showing at no obligation.

AMERICAN SCHOOL AND UNIVERSITY—1958-59

VACUSLOT

A completely new cleaning system to maintain clean mops—greatly speeds routine maintenance.

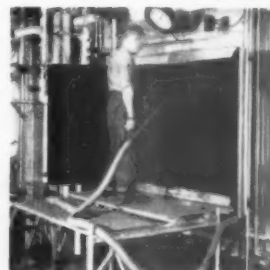
Large dust mops can be used to push dirt and litter to the Vacuslots, where high suction Spencer vacuum whisks it away. Mops are vacuum cleaned at the Vacuslots. Result: dust and germs cannot escape into the air.

Simple attachment of hose to Vacuslot valves also permits vacuum cleaning of stairs, carpeted areas, furniture, Venetian blinds, etc. Request descriptive Bulletin 153B.



BOILER CLEANING

Regular removal of soot from boiler tubes—practical with either stationary system or portables—provides proven fuel savings up to 20%. Soot and dust cannot escape into the air or resettle on floors and walls. Bulletins 117 and 137.



WATER PICK-UP

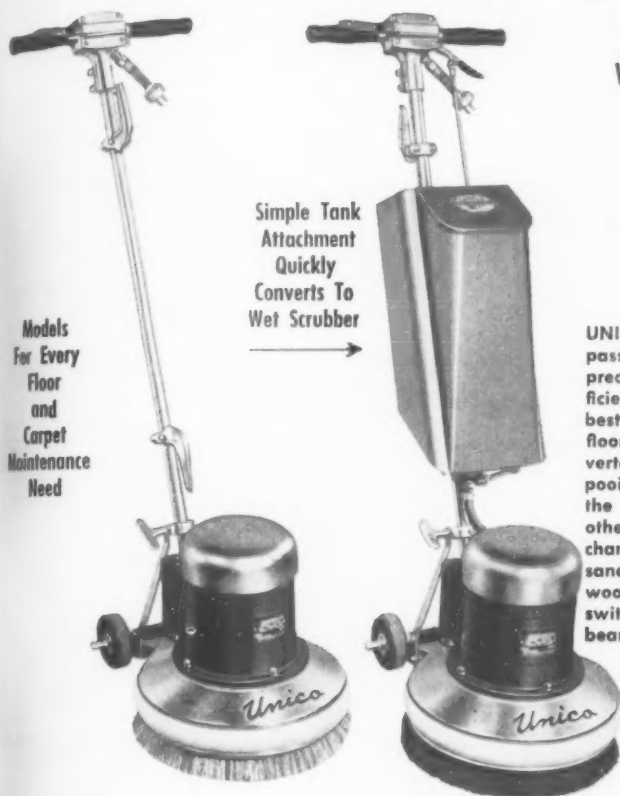
Both stationary systems and portable vacuum cleaners are adaptable to pick-up of scrubbing water or spillage. Separator tanks—with automatic shut-offs to prevent overflow—available in 8 to 100 gallon capacities.

The **SPENCER**
TURBINE COMPANY
486 NEW PARK AVENUE
HARTFORD 6, CONNECTICUT

UNITED FLOOR MACHINE COMPANY, INC.

7723 South Chicago Avenue • Chicago 19, Illinois

Maintain Your Floors Better, At Lower Cost, With UNICO Equipment



Unequalled For Scrubbing,
Waxing, Polishing, Sanding,
Buffing, Steelwooling

AVAILABLE IN
12", 13", 15", 17",
20" and 24"
BRUSH SIZES

UNICO Floor Machines are unsurpassed in value and performance, precision engineered for top efficiency, fully guaranteed. Proven best for scrubbing all types of floors sparkling clean. Quickly converted to wet scrubbers for shampooing rugs and carpets right on the floor. In addition, brushes and other attachments can be interchanged for waxing, polishing, sanding, buffing, grinding, steelwooling. Reversible safety control switch, adjustable handle, ball-bearing wheels, retractable wheel carriage, non-marking rubber bumper, G. E. motor, and other features make Unico your best floor machine buy!



Model S-12BH Aero
For Smaller Floor Areas

Small in size, mighty in performance, low in cost, easy to operate. Specially designed for maintenance of smaller floor areas. Weighs only 42 pounds, easy to carry. Features new Uni-Drive; no gears, no grease, no noise. 12" brush size. Quickly converts from polisher to wet scrubber. With attachments, it also waxes, sands, buffs, steelwools, polishes, etc.

Unico's Powerful, Efficient Vacuum Equipment Simplifies Wet and Dry Pickup



DRY-VAC
Vacuum
Attachment
Does 2 Jobs
At the
Same Time

DRY-VAC—Vacuum attachment for Unico machines vacuums dust and dirt and polishes floors in a single operation. Picks up all fine steelwool particles during steelwooling. No dust during disc sanding.

Model UVI-901BP—UNI-VAC portable vacuum for wet and dry pickup. No mops, no pails, no wringers. Capacity, 10 gal. liquid, or 1 3/4 bushels refuse. 1 H.P. silent motor. Can be used for blowing.

Model UVM-902—UNI-VAC portable vacuum for heavy duty industrial use. Ideal for cleaning boilers, furnaces, etc. Built-in cord reel. Outside dust bag. Powerful 1 1/4 H.P. motor.

Model UVI-903—UNI-VAC super-heavy-duty, super-quiet portable vacuum for wet and dry operations. Built-in cord reel. Capacity, 12 gal. liquid, or 2 bushels dry refuse. 1 1/4 H.P. silent motor.

WRITE FOR DETAILS . . . ASK FOR FREE DEMONSTRATION ON YOUR OWN FLOORS

AMERICAN SCHOOL AND UNIVERSITY—1958-59

BENNETT MANUFACTURING COMPANY

Alden, N. Y.

Manufacturers of America's Most Complete Line of Waste Receptacles



Self-Closing WASTE RECEPTACLES

for Automatic Cleanliness and Neatness

Attractively designed Bennett Self-Closing Waste Receptacles silently invite the

depositing of waste paper and trash to eliminate litterbugging—both indoors and outdoors. Everybody is automatically a member of your cleaning department by conveniently placing Bennett Waste Receptacles for cleanliness and neatness.



Choice of 12 Bennett Self-Closing Waste Receptacles Models.



Showing one of many slogans available for Bennett Self-Closing Waste Receptacles



SANITARY NAPKIN RECEPTACLES

WALL TYPE MOUNTING



Mounted on any wall or partition with four built-in handles on top door provide one hand opening and depositing. Positive, self-closing top door assure sanitary conditions. Disposable wax bag liners available.

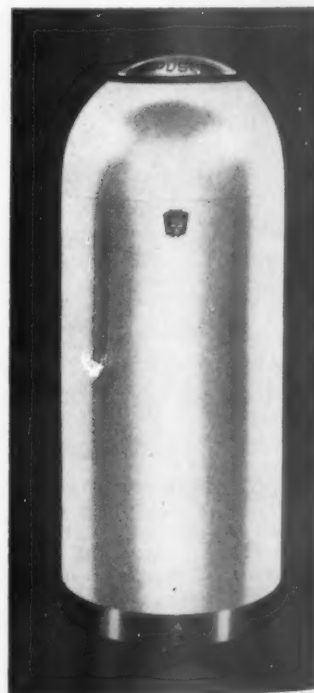
FLOOR TYPE

Sanitary . . . convenient . . . economical—this two door, positive, self-closing receptacle is 10" high to fit under partitions for use from both sides. Furnished with easily sterilized galvanized liner and disposable waxed paper bags.



DROP-IN Waste Receptacles

Round Design provides all around accessibility plus modern pleasing appearance. Self-closing chromium plated top door is equipped with gentle, silent spring action for easy depositing of waste. Equipped with full size watertight galvanized liner. Available in two models.



UNITED METAL CABINET CORP.

14th and Laurel Streets, Pottsville, Pa.

Midwest Sales Office: 666 Lake Shore Drive, Chicago

West Coast Distributor: Shore-Calnevar, Inc., 2911 Compton Ave., Los Angeles

Every Sanitation Problem has a **UNITED** Solution

LONGER LASTING SERVICE • BETTER SANITARY EFFICIENCY • MORE FOR YOUR MONEY

ROUND TOP RECEPTACLE

- One-piece construction.
- Stainless Steel Body.
- Self-closing stainless steel door... dependable action.
- Bonderized, Sanitary baked on enamel finish, White or Hammer-tone Green.
- Beauty. Tops them all.
- Durability.
- Galvanized corrosion-resistant inner container with handle.



Style #R1234
Height 34"
Diameter 18"
Cub. Capacity 12 1/2
Shipping Wt. 22 lbs.

Also Also Available in
Style #R1520
Height 50"
Diameter 24"
Cub. Capacity 12 1/2
Shipping Wt. 33 lbs.

SWING TOP WASTE RECEPTACLE

- Electrically welded throughout of heavy gauge furniture steel.
- Two independently-operating scientifically counter-balanced silent doors. No springs to go out of order.
- Tops gabled for strength. Mounted on two concealed hinges which hold top open when swung back. No interfering chains.
- Inner container easily removable.
- Bonderized. Heavy enamel finish baked on at high temperature.
- Colors: Olive Green, Hammer-tone Green, Gray, White. Inner containers furnished.



Stainless Steel Legs

Catalog Number	Size of Base Inches	Body Height Inches	Overall Height Inches	Shipping Wgt. Lbs.	Inner Container Furnished as Standard
*110	11 1/2 x 11 1/2	18	24 3/4	20	12 Paper bags
112	11 1/2 x 11 1/2	28	34 1/2	32	1 metal can
‡ 115	11 1/2 x 11 1/2	35	41 3/4	36	1 metal can
*130	16 x 16	27	35 1/2	39	1 Burlap bag
*150	21 x 21	35	46	74	1 Burlap bag
*†150W	21 x 21	35	46	74	1 Burlap bag

† For outdoor use—special weather resisting finish. * Available with galvanized inner containers.

‡ Also available with burlap bag.

Convert Your 55 Gal. Drums To Sanitary Waste Receptacles

Easy as putting on a top hat. Simply adjust 3 screws to insure rigid, stationary performance. Guards waste against vermin, snow, rain, etc.

exclusive with United:

- Two free-swinging doors for "double" service
- Fire resistant heavy steel
- Quiet "no spring" operation
- Designed for safety — no sharp edges
- Concealed hinges protected by gable top
- Outdoor baked-on enamel, over prime coat
- Electrically welded construction
- Bonderized for added protection against rust

Model No. 2455W. Green 24" dia. fits all 55 gal. drums. Packed one to a carton.

with **UNITED** Swing Top LIDS



NATIONAL VULCANIZED FIBRE CO.

Wilmington 99, Delaware



**a school
wastebasket that's
guaranteed
for five years**

Because handsomely rugged Vul-Cots are expertly made from National's Vulcanized Fibre, they offer economy-minded school-men an unusual combination of highly desirable qualities which include—

STRENGTH

Vul-Cots are strong, tough and durable. Capable of absorbing the hardest kind of schoolroom use or abuse. Their attractive, smooth surfaces resist wear and never splinter, dent, rust or corrode. With normal use they serve a lifetime.

APPEARANCE

Vul-Cots are available in 5 attractive efficient styles in a choice of sizes. There's a famous Vul-Cot for every school use—classroom, library, office, cafeteria, auditorium, or gymnasium. The exclusive double rolled top holds its round, smooth shape for the life of the basket. Attractive colors are a permanent part of the fibre; they can't chip, mar, stain clothing or rub off.

ECONOMY

A Vul-Cot wastebasket defies wear. It will remain attractive for years of long hard service. *Your first Vul-Cot cost is your last*—this is the secret of Vul-Cot economy.








**Write for Vul-Cot Bulletin 23-24
and Price List direct to . . .**



**NATIONAL
VULCANIZED FIBRE CO.**

WILMINGTON 99, DELAWARE

	ROUND TAPER Popular for office and classroom. Large in capacity, occupies small space.	Top Dia.: Bottom Dia.: Depth:	No. 1 10" 8" 12"	No. 2 12" 10" 14"	No. 3 14" 12" 16"
	SQUARE TOP Same as No. 2 above but with square top. Fits corner or against wall.	Top: Bottom Dia.: Depth:	No. 2-A 10½" x 10½" 10" 14"		
	SQUARE TAPER A distinctive style, popular with executives. Ideal for reception or board rooms.	Top: Bottom: Depth:	No. 5 12" x 12" 10" x 10" 15"		
	RECTANGULAR Large capacity, yet takes up small space. Nestles against desk or wall.	Top: Bottom: Depth:	No. 5-A Length 15½" Width 9¼" Length 14" Width 7" 15"		
	ROUND STRAIGHT Specially designed for washrooms, cafeterias, libraries, laboratories.	Diameter: Depth:	No. 9 14" 20"	No. 10 14" 30"	

JOHN WOOD COMPANY

Superior Metalware Division

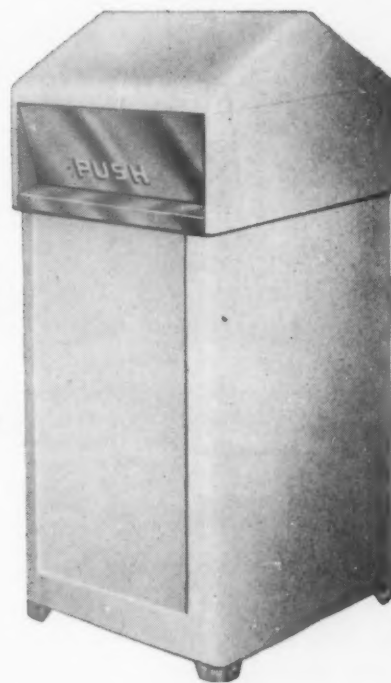
St. Paul, Minn.

IT'S SUPERIOR[®] INDOORS... OUTDOORS

A complete line of quality waste receptacles
to invite cleanliness everywhere

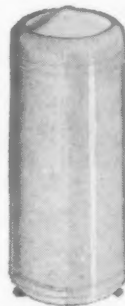
NEW SUPERIOR WEATHERMASTER

Weatherproof—suits every need indoors and outdoors. Two full width flaps swing under to keep rain out. Operate independently and safely. Hinged top folds back for easy emptying. Standard with painted doors and thresholds. Stainless steel doors and thresholds can be furnished at additional cost. Available in choice of colors.



THE JET

Handsomely styled to dispose of more waste faster. Stainless steel precision balanced dome top opens from any direction and prevents finger damage. Ideal for against wall or corner locations. One piece heavily enameled outer shell lifts off for easy emptying. Inner container makes emptying easier. Disposable polyethylene liners are also available.



STANDARD MODEL JET

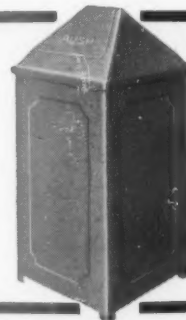
Long lasting plastic dome top. Low first cost and low maintenance costs. Choice of colors in top and outer shell.

STANDARD SELF-CLOSING RECEPTACLES

Easy to use

All metal construction. Rounded corners for added safety. Free-swinging self-closing flaps for easy waste disposal. Stainless steel legs keep receptacles off floors preventing rust marks.

Easy to empty



JOHN WOOD COMPANY

Superior Metalware Division

St. Paul, Minn.

Metalware for the Dairy Industry and Waste Receptacles



ANCHOR FENCE DIVISION

ANCHOR POST PRODUCTS, INC.

6695 Eastern Ave., Baltimore 24, Md.

SALES OFFICES IN PRINCIPAL CITIES

Complete Line of Fences and Gates

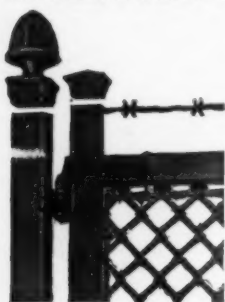
ANCHOR FENCES FOR SCHOOLS AND SCHOOL PLAYGROUNDS

The Anchor Fence Division of Anchor Post Products, Inc., has been serving public schools and colleges, municipalities and industrial plants with fencing to suit their various requirements for over 66 years.

Anchor Chain Link Fences

Makers of America's first chain link fence, the Anchor Fence Division of Anchor Post Products, Inc., today manufactures a complete line, and will be glad to supply any interested school executive or architect with a copy of our Chain Link Fence Catalog containing full information about the four exclusive features which make an Anchor Chain Link Fence exceptionally attractive and durable. Ask for Catalog No. 120.

ANCHOR'S FOUR FEATURES



Anchor-Weld
Wire Gate

1. ANCHOR-WELD WIRE GATE—built with a frame of square tubular steel—arc-welded at the corners. The square shape of the heavy steel tubing, together with the butt welding of the corners, provides a framework of maximum rigidity. We claim that this is the strongest and most attractive gate made.

2. SQUARE TERMINAL POSTS—stronger because they are square in section. More protective—having no fabric-holding bands and therefore providing no footholds for climbing. Better-looking—because of their graceful lines.



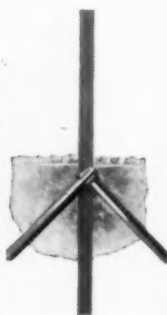
Anchor Square
Terminal Post



Anchor
H-Beam
Line Post

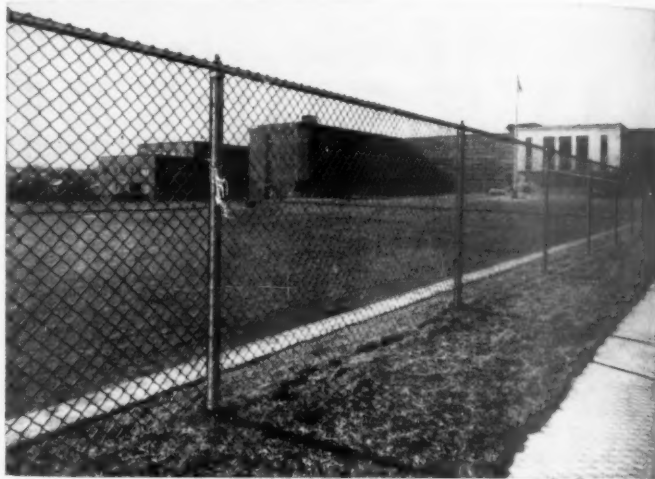
3. LINE POSTS—heavily galvanized, hi-carbon steel, H-Beam. Available in heavy and extra heavy weight sizes. Pipe also available if desired.

4. DRIVE-ANCHORAGE—grips the soil like the roots of a tree. We have imitated nature's engineering by providing the line posts with a broad foundation. Anchor drive-anchors defy thaws, frosts and the many other strains to which a fence is subjected.

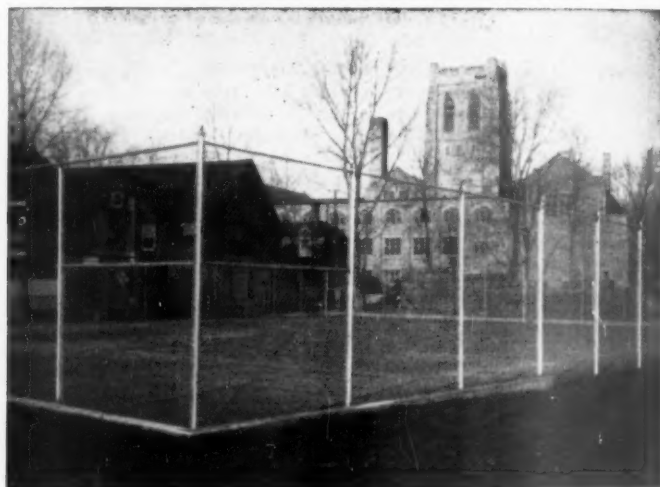


Post
Drive
Anchorage

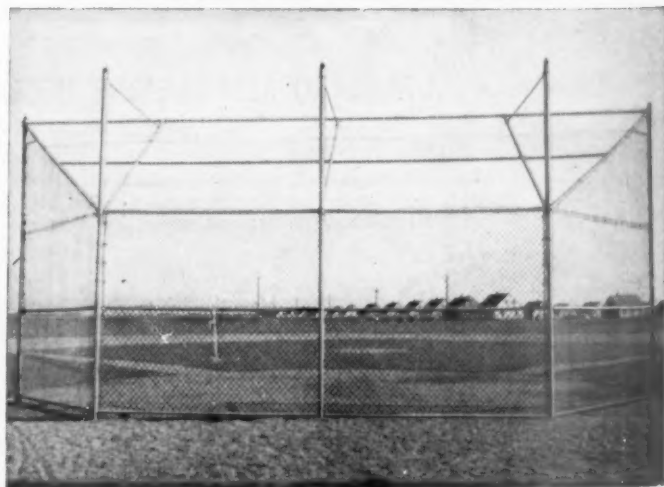
Note: While we strongly advocate the drive-anchor method of setting posts, we can, if desired, set our posts in concrete footings when conditions warrant such a procedure.



Anchor Chain Link Fence Around Playground



Anchor Chain Link Tennis Court Enclosure



Anchor Chain Link Baseball Backstop



THE COLORADO FUEL AND IRON CORPORATION

Continental Oil Building, Denver 2, Colorado

Wickwire Spencer Steel Division
361 Delaware Avenue, Buffalo 2, N. Y.

Pacific Coast Division
1080 19th Avenue, Oakland 6, Calif.

BRANCHES IN KEY CITIES EVERYWHERE

REALOCK[®] FENCE

Realock is a permanent, trim-looking enclosure that provides both security for property and freedom from vandalism, burglary, trespassing, and other violations of privacy.

Because of its adaptability and sturdy, sound construction, Realock Fence meets specification standards for municipal properties, colleges, schools, playgrounds, churches, stadiums, athletic fields, tennis courts and many other applications.

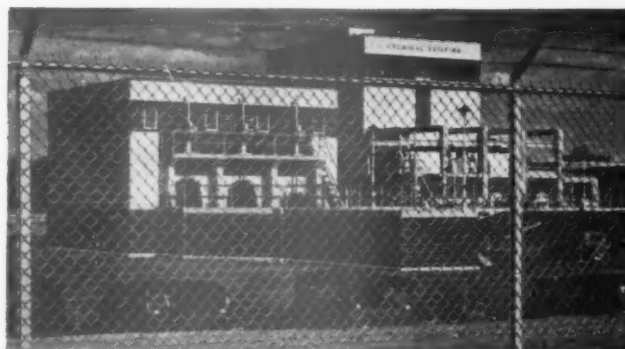
Hefty posts are set in concrete. Steel fabric is hot galvanized after fabrication. Aluminum fabric is also available for use with steel or aluminum framework. Fabric of other non-ferrous metals can be made to your order.

Our engineers and erection crews will aid you in planning and building Realock Fence enclosures that are economical, functional and long-lasting. For expert and convenient Realock service and a free estimate, consult your classified telephone directory or write our nearest sales office.

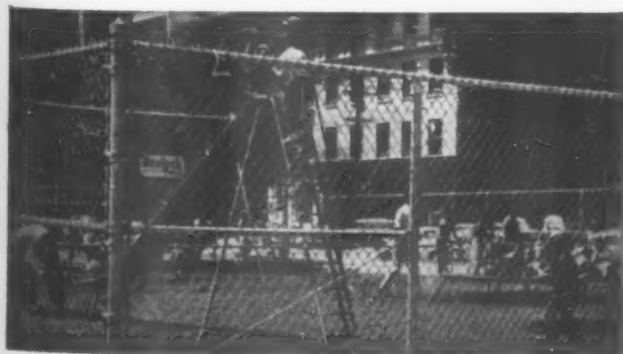
6021



TYPE 320 Realock Fence, 5 feet high with tubular post construction and barbed selvages. This fence is also made with knuckled selvages.



TYPE 423-H Realock Fence, 8 feet high, using "H" section posts. Topped with 3 strands of barbed wire also available with 5 or 6 strand barbed wire topping.



TYPE 420 Realock Fence, 6 feet high with knuckled selvage at top for schools and playgrounds. Barbed selvages available where specified. This illustration shows the sturdy, tubular post construction—assurance of enduring protection for property.



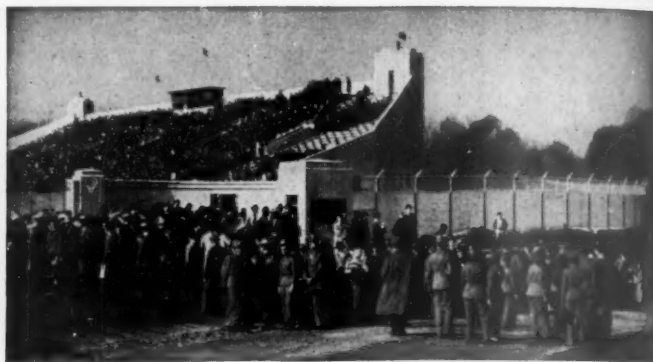
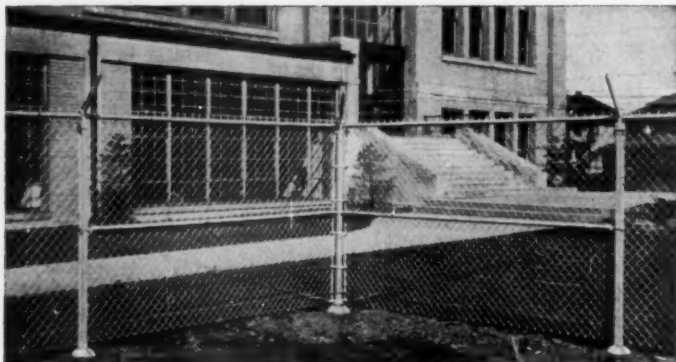
REALOCK TENNIS COURT ENCLOSURE
This illustration shows a typical Realock Tennis Court Fence. Two types are available—310 (Light construction) shown above and 420 (Heavy construction). Standard Heights, 8' 10' and 12'.

CONTINENTAL STEEL CORPORATION

Manufacturers of Chain Link Fence for All Purposes

"SALES REPRESENTATIVES IN PRINCIPAL CITIES"

CONTINENTAL Chain Link FENCE



COMPLETE CHAIN LINK FENCE

To meet the fencing requirements of schools and universities, Continental has developed a wide range of structural variations in its Chain Link Fence. The selection in styles, heights, types of top construction, gates and accessories makes it possible for schoolmen to select the best fence for any installation.



FABRIC OF KONIK STEEL

The wire fabric in Continental Chain Link Fence is made of KONIK—a new steel containing copper, nickel and chromium for greater strength and rust resistance "clear through." This superior fence fabric carries a zinc coating applied by a special hot dip process to insure uniformity and adhesion of the coating to the base steel. A uniform, bright finish enhances the appearance of Continental fence fabric. Wire is full gauge and woven in exact mesh.

TAILORED TO FIT SCHOOL PROPERTY

Experienced fence engineers plan and help erect Continental Chain Link fence anywhere. No matter what your property protection problem, Continental engineers will work with you in laying out the most effective and economical installation—planned to harmonize with the character of school property, and provide the type of protection you want.

10 STYLES

Continental offers 10 styles of top construction for Chain Link Fence. Six popular styles are illustrated to the right. Continental fence is engineered for each specific job.

POSTS AND FITTINGS

Continental fence has heavier, sturdier posts with improved brace construction. Top rails are joined by a special Inside-Outside coupling. Post caps and barbed wire arms are sturdy, heavier. Self-locking slots hold barb wire. New type lock pin eliminates bolts and nuts for fastening fabric to tension bands.

GATES

Strong and easily operated gates and locking devices. Single and double types with improved pivot type hinges. Manually or mechanically operated.

ENGINEERING AND ERECTION SERVICE

Our engineers are prepared to assist you in laying out the most economical installation for your purposes. Trained erection crews are available for correct and economical construction anywhere. When local labor is used Continental will supply competent foreman and inspection service.

SEND FOR FREE MANUAL

This file size book contains more than 100 illustrations, will help you evaluate fence protection, select right style of fence. Write the



* Trade Mark Reg. U. S. Pat. Off.

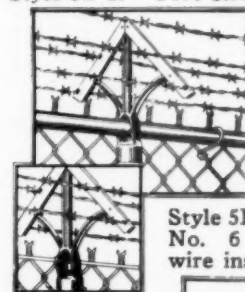
A STYLE TO MEET EVERY SCHOOL NEED



Style 3B-R—Three strands of barb wire with top rail. Arm of 12 gauge pressed steel. Barb wire held in angle slots and automatically locked in place by tension.

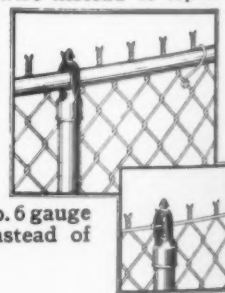
Style 3B-W Same with No. 6 gauge coil spring tension wire instead of top rail.

Style 5B-R—Five strands of barb wire with top rail. Top rail of tubular steel 1 1/2" O. D. Has 7" expansion sleeves.



Style 5B-W—Same with No. 6 gauge tension wire instead of top rail.

Style NB-R—No barb wire with top rail. Style NB-W



—Same with No. 6 gauge tension wire instead of top rail.



CONTINENTAL STEEL CORPORATION

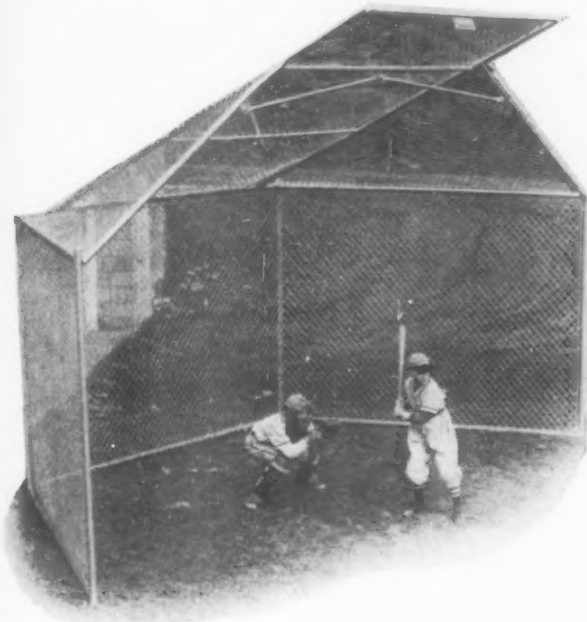
GENERAL OFFICES • KOKOMO, INDIANA

General Offices:
Kokomo,
Indiana
Dept. 12-E

CROSS FENCE CO.

2988 Babcock Blvd., Pittsburgh 37, Pa.

Cross Pre-fab BASEBALL BACKSTOPS



The Cross Foldstop

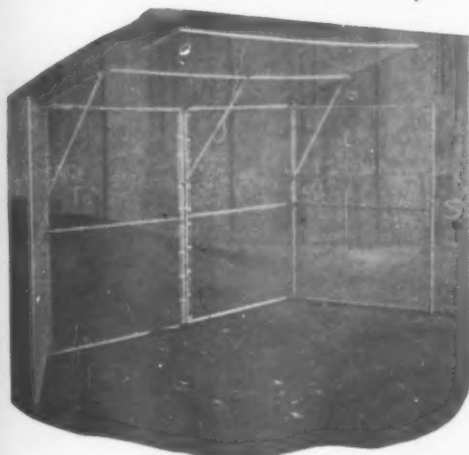
For Permanent or Portable Use.

Furnished with sleeves to be set 30" in concrete or dirt. Additional sleeves can be furnished for alternate locations. Back and side wings shipped assembled and folded. Canopy shipped assembled and folded to be lifted and bolted into place.

No special skill or tools required for assembly.

- PORTABLE
- FULL SIZE
- ECONOMICAL

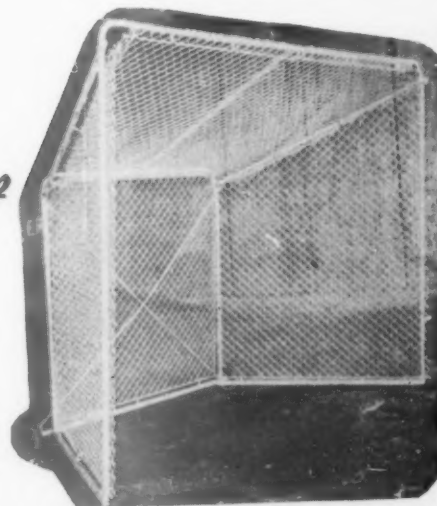
The Cross Panelstop



The Cross Rollstop

Designed for years
of hard service.

A durable, welded-frame practice backstop, that can be rolled out to wherever needed. Manufactured with 1 3/8" O.D. and 1 3/8" O.D. standard pipe framing, and covered with No. 11 gauge standard chain fabric. Coaches will appreciate the unique method of suspending the chain link fabric on the inside of the pipe framework to cushion the ball and reduce rebound.



An unlimited number of designs to fit any requirement.

The Panelstop designs are all formed from the basic folding panel, ten feet high and fifteen feet, six inches wide. Panels are all assembled and welded with 2" O.D. standard pipe posts and 1 3/8" O.D. standard pipe rails. Posts extend three feet below panels, and may be set in sleeves for removal, or concreted in the ground permanently.

Write for complete information, specifications and prices.

CYCLONE FENCE DEPARTMENT

AMERICAN STEEL & WIRE DIVISION, UNITED STATES STEEL CORPORATION

UNITED STATES STEEL

General Offices

Waukegan, Illinois

Waukegan, Ill.

Newark, N.J.
Oakland, Calif.



Greensburg, Ind.
Fort Worth, Texas

DeKalb, Ill.

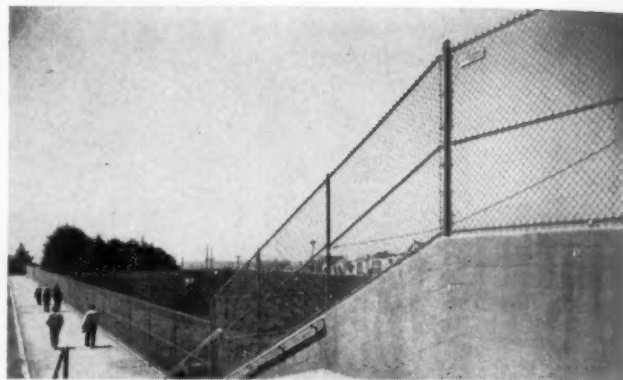
United States Steel Export Company, New York

FOR enclosing school yards, playgrounds, athletic fields, outdoor pools—Cyclone Chain Link Fence provides the utmost in protection for children, property and equipment. And it's not surprising, because Cyclone has long specialized in fencing school property.

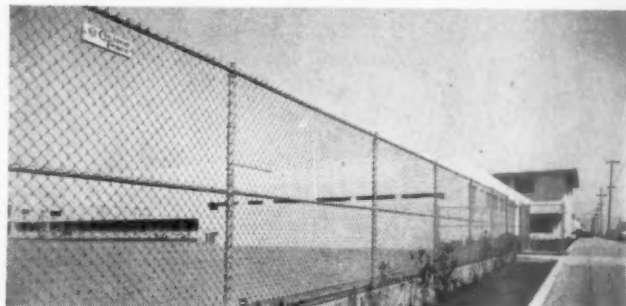
Because Cyclone Fence is a quality product, it is a worthwhile investment that pays off in years of trouble-free, maintenance-free service. Cyclone gives full value for your dollar. Nothing but brand-new, top-quality material is used throughout. Posts and top rails are heavy and rigid. Gates won't drag. The chain link fabric is woven from heavy steel wire and galvanized after weaving for resistance to rust and corrosion. And Cyclone Fence can be speedily erected by our crews of factory-trained workmen.

For athletic fields, for stadiums—wherever paid admissions are a factor—a Cyclone Fence provides effective "entrance control" . . . makes gate receipts go up, and ticket collecting easy.

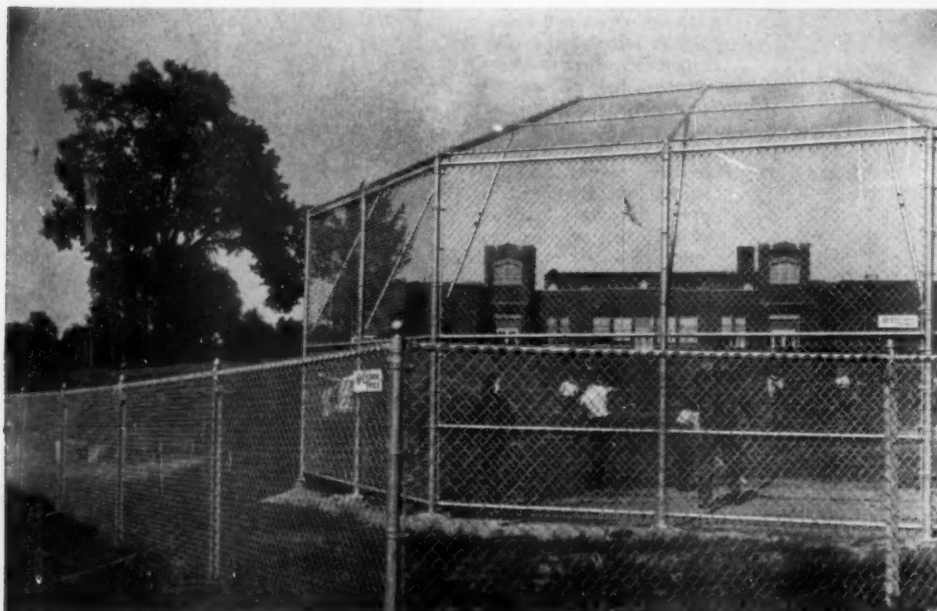
Only United States Steel Corporation manufactures Cyclone Fence. Accept no substitute.



Cyclone Fence protects an athletic field. Players here are not disturbed by over-enthusiastic spectators and trespassers are kept safely out of the game's way.



Cyclone Chain Link Fence is shown here enclosing a modern school. For use around most schools Cyclone recommends the extra strength and weight of 6-gauge wire.



AMERICAN SCHOOL AND UNIVERSITY—1958-59

In addition to fencing, Cyclone also specializes in other athletic equipment such as this permanent style Baseball Backstop. Other items available are Portable Backstops, Tennis Court Backstops, steel Tennis Nets and Posts and Football Goal Posts.

No job is too Large
No job is too Small
for **CYCLONE**

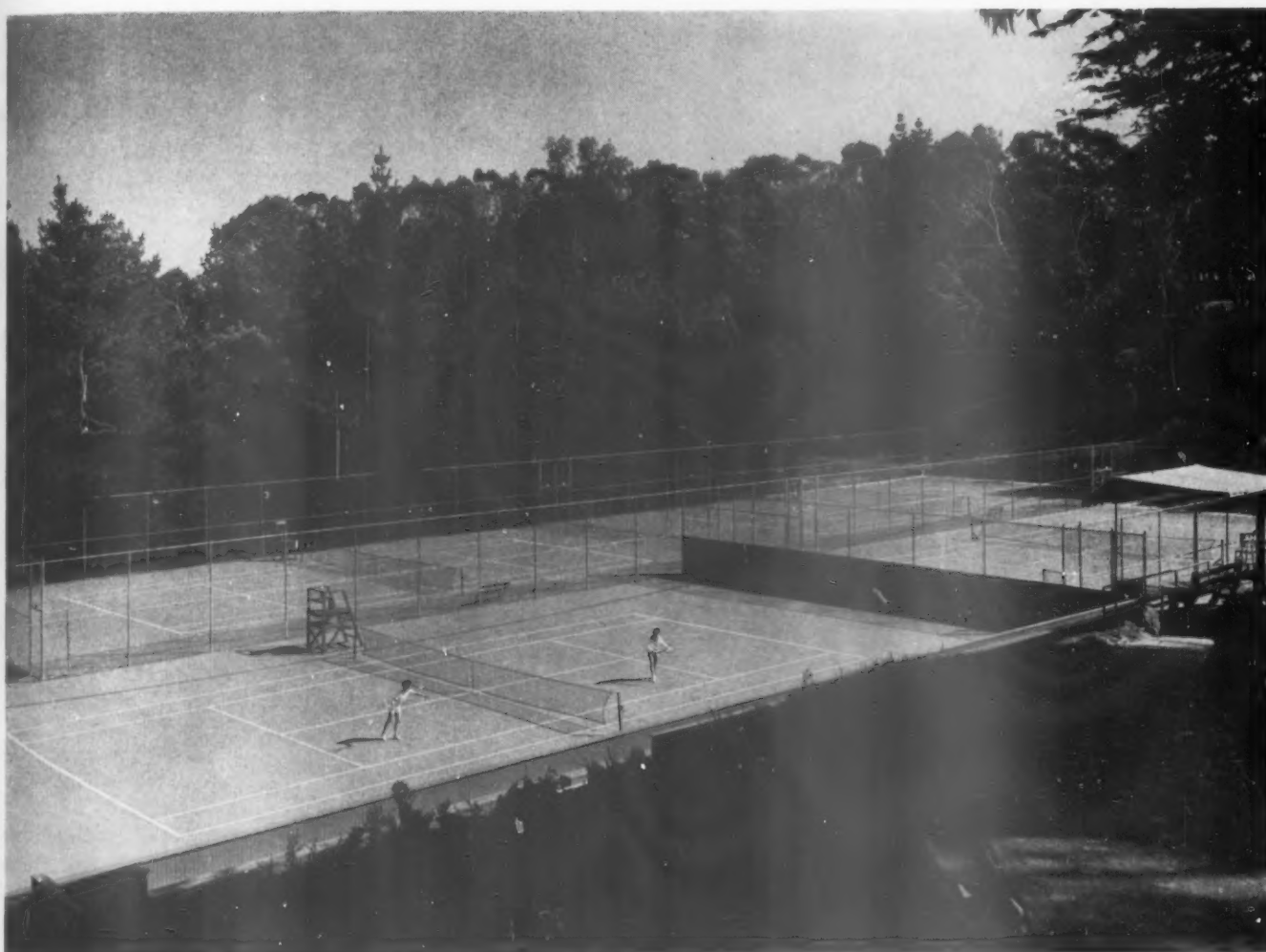


AMERICAN BITUMULS & ASPHALT COMPANY

320 Market St., San Francisco 20, California

Perth Amboy, N.J. • Baltimore 3, Md. • Mobile, Ala. • Inglewood, Calif. • St. Louis 17, Mo. • San Juan 23, P.R. • Oakland 1, Calif. Cincinnati 38, Ohio • Tucson, Ariz. • Portland 7, Ore.

Get more play days with LAYKOLD and GRASSTEX All-Weather Tennis Courts



Tennis Courts—From coast to coast, Laykold® and Grasstex® courts are the first choice of schools and universities. Their smooth, resilient playing surfaces are maintenance-free; are ready for play the year around. That's why over 50% of the major colleges have chosen Laykold. *For resurfacing existing courts*, Laykold Resurfacer and Wear Coat add new life and beauty at low, low cost.

Play Areas—For safe surfacing of other play areas, Laykold Walk-Top® provides a smooth, non-abrasive, resilient seal that minimizes the hazard of falls.

Other Laykold asphaltic products for floors and roofs—Full information on all Bitumuls® and Laykold products are available from our nearest office. Write for free, illustrated literature.

DEVERE COMPANY

Racine, Wisconsin

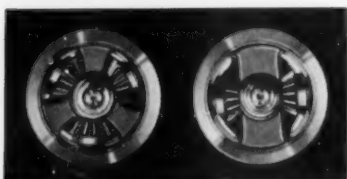
POWER... ENDURANCE

for • LONG, HEAVY GRASSES
• STEEP SLOPES
• TERRACES



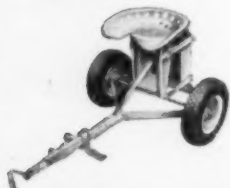
Front discharge eliminates unsightly clumps.

Powerful, ruggedly built, with heavy gauge, reinforced steel frames, Devere mowers, day in and day out, tackle the toughest jobs—sometimes under almost unbelievable conditions. Whether it be mowing heavy grass and weeds in the spring and summer or mulching leaves in the fall, they can be counted on to give dependable, heavy-duty performance at lowest maintenance costs! "Field-proved" by thousands of users in all sections of the country—they can do for you what they have done for others.



TWO EXCLUSIVE DEVERE FEATURES

The use of three pinions in the differential instead of two, cuts wear on gears and bearings. The differential is sealed against the entrance of dirt.



This Devere Sulky can be used with Models 24, 24R, 31, and 31R. Increases cutting capacity 50% with less operator fatigue.

8 DEVERE MODELS

- Model 32R — 32" Riding Mower
- Model 31 — 31" Self-propelled
- Model 31R — 31" Self-propelled with reverse
- Model 27R — 27" Riding Mower
- Model 24 — 24" Self-propelled
- Model 24R — 24" Self-propelled with reverse
- Model 424R — 24" Riding Mower
- Model 18HD — 18" Hand-propelled, heavy-duty trimmer

There's a Devere mower to fit every mowing requirement . . . nine models form the most comprehensive line of rotary mowers in the industry. Thousands of Devere mowers are in daily operation at parks, cemeteries, institutions, schools and colleges . . . your assurance of satisfaction. Write for information.

The original rotary scythe suction-lift mower with a reverse.

→ DEVERE → COMPANY
RACINE, WISCONSIN • U.S.A.
Quality Products Only . . . Since 1922

WORTHINGTON

Mowing Equipment for Large Area Grass Maintenance



ENGINE: Heavy-duty industrial, 4-cylinder.
FUEL: Gasoline— 8 gallons, total capacity.
PROTECTION: Weather-protected. Distributor tightly sealed.
TRANSMISSION: Heavy-Duty. 4 Speeds forward, reverse. Speed range from 2 to 25 mph.
DRIVING AXLE: Timken-Detroit 1½-ton truck type.
STEERING AXLE: Heavy-duty, pivotally mounted.
STEERING: Automotive type with adjustable steering. Turning radius, 7 ft.
WHEELS: Foot hydraulic and parking mechanical brakes.
DRIVELINE: Ball coupler type, convertible to pin type.
ACCESSORIES AVAILABLE: Snow Plow, Front End Loader, Cab.



Model "F" Tractor

The Model "F" Tractor, a new concept in design with front-wheel drive and rear-wheel steering, is a great gang-mower power unit. Articulated mowers are mounted ahead of all tractor wheels, allowing operators to see where they're cutting. Grass is cut before the wheels mat it down without streaking or "over again" mowing. Fairway and Blitzer units with convertible frames are available in 3-, 5-, and 7-gang.

ADDITIONAL: Available for use with either Fairway or Blitzer mowers. Specifications are the same as for Model "F" Tractor as shown above, with the addition of the following equipment.

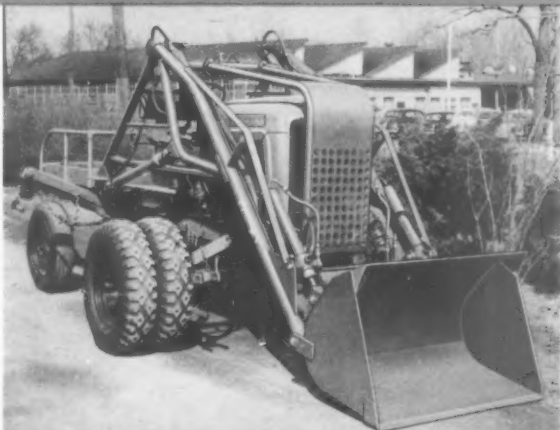
HYDRO-TRAVEL LIFT: Rugged, engine-driven hydraulic pump raises and lowers mowers easily and safely. Action is controlled from an arm to reach lever located at the operator's seat. It is designed to lift and transport 3- or 5-gang mowers. When in raised position, mowers are held securely in place. Safety chains prevent accidental lowering when traveling at road speeds. When lifted, mowers afford ample ground clearance to cross over curbs or obstacles.



Model "F" Tractor with Hydro-Travel Lift.

Speed mowing and cut travel time between jobs with Model "F" Tractors equipped with Hydro-Travel Gang Mower Control. This method raises and lowers mowers smoothly through a positive hydraulic system controlled from the driver's seat. During travel, mowers are held securely for safety at road speeds. Climbs curbs easily with mowers raised. Unit can be stored without dismantling. Available for 3- and 5-gang mowers.

ADDITIONAL: Attachments and accessories for both Model "F" and Model "G" tractors can be obtained either at the factory or in the field. For information and complete specifications, contact your local dealer.

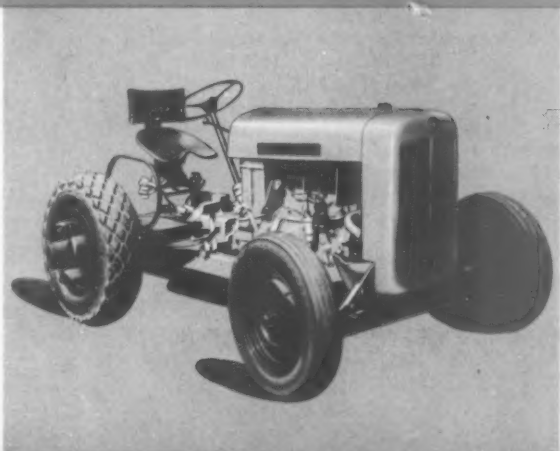


Tractor Attachments

The use of attachments with both the Model "F" and Model "G" Tractors makes these units versatile, all-season workhorses. When equipped with front-end loaders, the tractors can handle sand, coal, gravel, and loose dirt. The bucket can be replaced with a plow blade for snow removal. A cab is also available for foul weather work. Other accessories include power-take-offs, light graders, and utility carts.

ENGINE: Heavy-duty industrial, 4-cylinder.
FUEL: Gasoline— 8 gallons, total capacity.
PROTECTION: Weather-protected. Distributor tightly sealed.
TRANSMISSION: Heavy-duty. 4 Speeds forward, reverse. Speeds from 3 to 40 mph.
DRIVING AXLE: Timken-Detroit 1½-ton truck type.
STEERING AXLE: Heavy-duty, pivotally mounted.
STEERING: Automotive-type, adjustable steering. Turning radius, 5½ ft.
WHEELS: Foot hydraulic and parking mechanical brakes.
DRIVELINE: Ball type coupler, convertible to pin type.

ACCESSORIES AVAILABLE: Snow Plow, Front End Loader, Cab, Mechanical Sickle Bar, Hydraulic Sickle Bar.



Model "G" Tractor

The exceptionally low-center of gravity found in this tractor gives it the ability to cut side hills and slopes as steep as 35° without danger of upset. A rugged, dependable, heavy-duty industrial engine provides the Model "G" with power to spare on mowing and power-take-off work. Fast 40 mph. road speed reduces travel time between jobs. Short 5½-foot turning radius means greater maneuverability in close quarter work. The Model "G" combines utility with low-cost performance.

WORTHINGTON

CUTTER BAR: Heavy-duty Highway Detroit Harvester. 5 ft. (3" knife sections).
DRIVE: From rear power-take-off through V-belts.
CUTTING ANGLE: 90° above horizontal, 45° below.
LIFT & CONTROLS: Power, Hydraulic. Levers easily accessible.
SAFETY DEVICES: V-belt drive and spring tension swing back.
TILT: Hand lever and notched quadrant permit blade tilt.
SPEED: First and second gear transmission offer wide range of cutting speeds to meet varying cutting conditions. Cutting speeds range from 1.5 to 6.5 mph.
INNER SHOE REGULATION: From ground to 8".

Model "G" Tractor with Mechanical Sickle Bar.

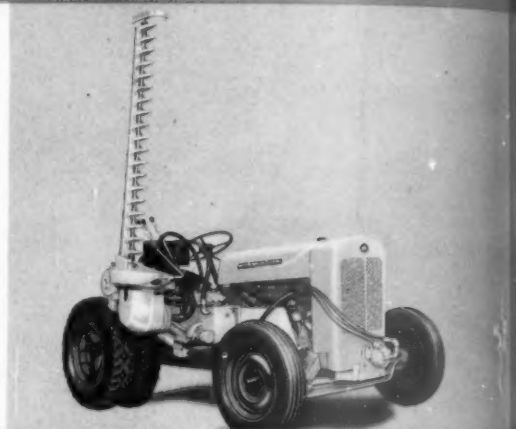
When the Sickle Bar Attachment is used with the dual wheel Model "G" Tractor, irregular terrain and slopes as steep as 35° can be mowed with complete safety. Extreme low center-of-gravity of the "G," plus extra-big, dual, low-pressure tires for maximum flotation makes this possible. Sickle Bar is mounted ahead of driver, making it possible to avoid obstructions. Special safety features minimize Bar damage.



CUTTER BAR: Heavy-duty, Hydro-Clipper, full-floating type, 5 ft. bar (3" knife sections).
DRIVE: Fully hydraulic.
CUTTING ANGLE: 90° above horizontal, 45° below.
LIFT & CONTROL: Hydraulic. 3 control levers within easy reach of operator.
TILT: Made quickly and positively with single lock nut.
SAFETY DEVICES: Self-returning 90° breakaway. Positive transport locks. Pressure relief valve unloads the instant the knife is stopped, relieving all pressure from the knife.
SPEED: Hydraulic pump operates in direct ratio to engine speed. Cutting speeds range from 1.5 to 9 mph.
INNER SHOE REGULATION: From ground to over 12".

Model "G" Tractor with Hydraulic Sickle Bar.

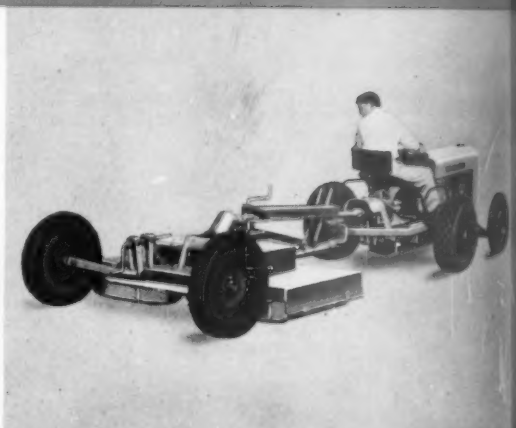
The Model "G" Tractor with Hydraulic Sickle Bar meets every highway cutting requirement. Extremely low tractor center-of-gravity permits cutting of slopes up to 35° without danger of upset. The Hydraulic Sickle Bar cuts at much higher speeds than average highway sickle bars. Safety features reduce maintenance costs between 50% to 75%, giving more cutting mileage between knife sharpenings.



MAIN DRIVE: From heavy-duty Detroit Harvester Power-Take-Off at tractor transmission through 1" shaft to driving sheaves.
DRIVE SHAFT: 6 spline, S.A.E., regulation size. Guarded for safety.
BEARINGS: Heavy-duty, pre-lubricated, sealed ball type.
SHEAVES: Two 4-groove. Keyed to shaft.
V-BELTS: Four B-section, nylon cord, matched belts.
FINGER TOUCH CONTROL: Easy-to-reach lever engages and disengages power-take-off.

Model "G" Tractor with S.A.E. Power-Take-Off.

The S.A.E. Rear Power-Take-Off Drive Assembly was specially engineered for operating Worthington Power-Take-Off Rotaries, sprayers, shredders, and other types of equipment. The unit was designed so that the Model "G" Tractor can be operated in second gear at speeds up to 10 miles per hour and still transmit adequate power to the rotary mower blades. This means double cutting capacity.



ENGINE: Heavy-duty industrial, 4-cylinder
FUEL: Gasoline; 8 gallons, total capacity.
IGNITION: Weather-proofed. Distributor tightly sealed.
TRANSMISSION: Heavy-duty, 4 speeds forward, 1 reverse. Speed range from 3 to 40 mph.
DRIVING AXLE: Timken-Detroit, 1 1/2-ton truck type.
STEERING AXLE: Heavy-duty, pivotally mounted.
STEERING: Automotive-type with adjustable steering column.
BRAKES: Foot hydraulic with two independent mechanical brakes on drive wheels.
BODY CAPACITY: 1 cubic yard.
TAIL GATE: 2-way—top or bottom hinged.
DRAWBAR: Ball coupler, convertible to pin type.

Dump-Body Tractor

The latest addition to the Worthington line combines all the versatility of the famous Model G Tractor with the utility and carrying capacity of a light dump truck. This "Utility" Tractor can be used to pull gang mowers, carry dirt, sand, leaves, fertilizer or tools, making it an all-purpose tractor. Extremely low body height makes it easy to load. The accurately-balanced box can be dumped at the touch of a lever. Proper weight distribution and low center-of-gravity makes the unit at home on any terrain from smooth fairways to steep, rugged hillsides.



Worthington Mows it... Better... Faster... Cheaper

The Big Name in Big Area Grass Maintenance



Fairway Gang Mowers

A broad expanse of carpet-smooth turf is the trade mark of Worthington Fairway Gang Mowers. Articulated frame design permits mowers to follow ground contours. Units can be telescoped in width for passing through narrow openings. A patented spring supplies a 50 pound downward pressure on the roller, preventing skipping and bouncing. Lever regulates pressure to suit cutting conditions. Available in 3-, 5-, and 7-gang units.

CUTTING WIDTH: 30 inches (each unit).

OVERALL CUTTING SWATH: 3-gang, 6' 10"; 5-gang, 11' 2"; 7-gang, 15' 6".

WHEELS: Pressed steel discs with demountable rims. Pneumatic-tired wheel optional.

GEARS: Machine-cut, heat-treated.

REVOLVING KNIVES: 8" diameter reel, 6-blade standard, 5-blade optional. Blades of specially heat-treated alloy attached to shaft by five steel discs.

BED KNIFE: Oil-hardened, special alloy steel.

DRIVE: Separate gear train for each ground wheel.

BEARINGS: Roller for ground wheel and intermediate gear. Shielded ball for fly-knife reel and rear roller.

HEIGHT OF CUT: Steel wheels, 11/32" to 23/4".

ADJUSTMENTS: Done entirely by hand.



Blitzer Gang Mowers

Blitzer Gang Mowers are built to take abuse and mow rough grass areas with increased speed and decreased cost per acre. Blitzer gangs are capable of cutting rough areas at speeds up to 20 mph. Articulated frame design permits each unit to conform to ground contours. Large diameter reel with extra space between knives allows Blitzers to gather in and clip tall grass. Available in 3-, 5-, 7-, and 9-gang units.

CUTTING WIDTH: 30 inches (each unit).

OVERALL CUTTING SWATH: 3-gang, 7' 2"; 5-gang, 11' 10"; 7-gang, 16' 6"; 9-gang, 21' 2".

WHEELS: 4.00 x 12 pneumatic tires (4.00 x 18 optional) mounted on drop center rims.

GEARS: Machine-cut, heat-treated.

REVOLVING KNIVES: 10" diameter reels, 4-blade standard, 5-blade optional. Blades of specially heat-treated alloy attached to shaft by 5 steel discs.

BED KNIFE: Oil-hardened special alloy steel.

BED KNIFE PROTECTIVE SKID: 1/4" steel.

DRIVE: Separate gear train for each ground wheel.

BEARINGS: Roller for ground wheel and intermediate gear. Shielded ball for fly-knife reel.

HEIGHT OF CUT: 4.00 x 12 tires, 1 1/2" to 3 1/2".

ADJUSTMENTS: Done entirely by hand.



Model "G" Tractor with Self-Lift Ranger.

The Self-Lift Ranger when used with any tractor, is unexcelled for maintaining fast cutting schedules on widely separated areas. It's faster on the grass...faster on the highway, too, when used with the 40-mile-per-hour Model "G" Tractor. The Ranger's cutting units are famous Grass Blitzers which are noted for smooth cutting at high speeds. Travel wheels raised or lowered hydraulically from driver's seat.

GENERAL: Available with either three Blitzer or three Fairway units. Specifications of cutting units are the same as listed on page 2 and 3, but with the addition of the following:

LIFTING MECHANISM: Hydraulic ram raises or lowers travel wheels. Pressure is supplied by automotive starting motor, hydraulic pump, reservoir and valves. Electric cable connects starting motor and push button switch on tractor. Release valve is controlled from tractor seat.

FRAMES: Fully articulated. In transport position, mowers and frames become rigid, eliminating bobbing and swaying.

CUTTING SWATH: 7'.



Ranger Assembly for Farm Tractors.

The Ranger Assembly, combined with either a Ford, John Deere "40," International "300," Oliver "55," "Massey-Harris "50" or Ferguson Tractor, makes a low-cost mowing unit that's ideal for cutting widely-separated turf areas. This easy-to-install Ranger utilizes the three-point hydraulic lift system of the tractors to raise or lower the mowers. The assembly incorporates three standard 30-inch Blitzer mowers that produce a 7-foot cutting swath.

GENERAL: Available with either three Blitzer or three Fairway units. Specifications of cutting units are the same as listed on page 2 and 3, but with the addition of the following:

LIFTING MECHANISM: The three-point hydraulic lift system of the tractor is utilized to raise or lower the mowers. Units are raised high enough to permit tractor to climb curbs with ease.

FRAMES: Fully articulated. In transport position, mowers and frames become rigid, eliminating bobbing and swaying.

Ranger Attachment

for Massey-Harris Pony Tractor.

The Ranger Attachment combines speedy mowing with fast between-job travel. The unit's mobility and ease of operation, makes it suited for maintaining widely separated grass areas. Cutting units mount directly on the tractor in full view of the operator. They are raised hydraulically and locked rigidly in position for highway travel and curb climbing. Fairway mowers are standard cutting units.

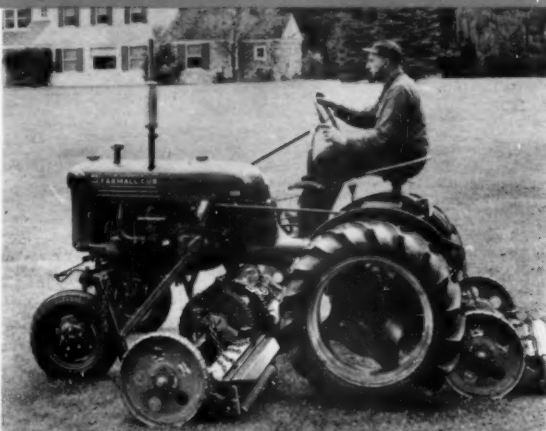


CUTTING WIDTH: 30 inches (each unit).
OVERALL CUTTING SWATH: 80 inches.
WHEELS: Pressed steel disc with demountable rims. Pneumatic-tired wheel optional.
GEARS: Machine cut, heat-treated.
REVOLVING KNIVES: 8" diameter reel, 5-blade standard, 6-blade optional. Blades of specially heat-treated alloy, attached to shaft by 5 steel discs. All parts electrically welded.
BED KNIFE: Oil-hardened special alloy steel.
BEARINGS: Roller on ground wheels and intermediate gears. Shielded ball on fly knife reel and rear roller.
HEIGHT OF CUT: Steel wheels, 11/32" to 23/4".
ADJUSTMENTS: Done entirely by hand.

Ranger Attachment

for Farmall Cub Tractors.

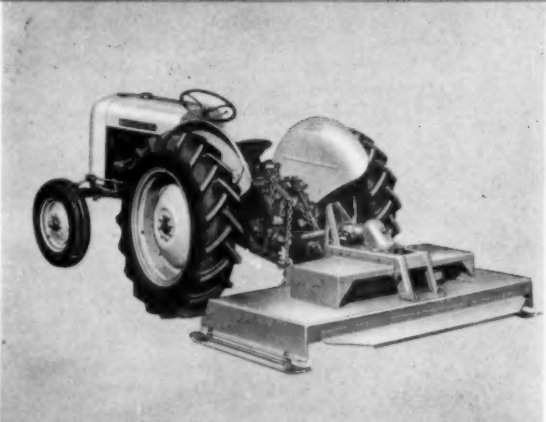
The Three-Gang Ranger Attachment for Farmall Cub Tractors combines fast cutting with easy between-job travel. With two cutting units mounted directly in front of the drive wheels, and a third located behind the wheels, the Ranger trims right up to obstructions. Mowers are raised hydraulically and locked in position for safe highway travel and curb climbing. Cutting units are standard Fairway mowers.



GENERAL: The Ranger has been approved by the International Harvester Company for use on the Farmall Cub and its use will in no way affect the warranty of the tractor.
CUTTING WIDTH: 30 inches (each unit).
OVERALL CUTTING SWATH: 80 inches.
WHEELS: Pressed steel discs with demountable rims. Pneumatic-tired wheel optional.
GEARS: Machine-cut, heat-treated.
REVOLVING KNIVES: 8" diameter reel, 5-blade standard, 6-blade optional. Blades of specially heat-treated alloy attached to shaft by 5 steel discs. All parts electrically welded.
OTHER SPECIFICATIONS: Same as listed under Fairway Gang Mowers on page 2.

Model "72P" Rotary

The Model "72P" Rotary is a heavy-duty mowing unit for use with an existing tractor. This Rotary can be used with a Ford, Ferguson, Massey Harris 22, John Deere 40, or any similar tractor with a three-point hitch. In dense brush or light grass, when you have a Model "72P" behind your tractor your mowing problems are solved. You get a smooth, clean mowing job with this easy-to-manuever unit.



WIDTH OF CUT: 72".
POWER REQUIRED: Standard two-plow tractor.
FRAME: Welded steel construction.
MAIN DRIVE: Power-take-off shaft equipped with 2 Blood Brothers needle bearing universals—50 hp. rated.
GEAR BOX: Special heavy-duty—60 hp. rated Timken roller bearing equipped. Oil flood lubricated.
GEARS: Forged steel, machined and heat-treated.
CUTTER SPINDLES: Timken roller bearing equipped.
CUTTER BLADES: Twin arms, suction-lift type, staggered. Precision ground knives made of special alloy, oil-hardened steel for long cutting life.
HEIGHT OF CUT: Fully adjustable from ground level up to 24 inches.
LEAF MULCHING ATTACHMENT: Sold separately.

Triplex Mower

The Triplex Mower with its 85" swath can easily mow up to 30 acres per day. The Triplex has three 30" Fairway type mowers that cut the grass ahead of the wheels and prevent streaking. The unit, with automotive type steering is powered by an 8.4 hp. 4-cycle air-cooled engine. Mower has cutting speeds up to 6 mph. and can climb grades up to 36%. A 48" blade-type snow plow is available for use with the Triplex Mower.



ENGINE: 8.4 hp.
SPEEDS: 3—Forward; 1—Reverse.
MOWING SPEEDS: Up to 6 mph.
STEERING: Automotive wheel.
TURNING RADIUS: Approximately 18".
LENGTH OVERALL: 72".
HEIGHT OVERALL: 42 1/4".
WIDTH OVERALL: 46 1/2" Wing units raised. 89-5/16" Wing units lowered.
HEIGHT OF CUT: 3/8" to 2 3/8".
CUTTING SWATH: 85".
REEL: 8" diameter, 5-blade.
CUTTING ANGLE OF SIDE UNITS: 45° Above or below horizontal.
BRAKES: Automotive type.

WORTHINGTON MOWER COMPANY
STROUDSBURG • PENNSYLVANIA

Subsidiary of Jacobsen Manufacturing Company, Racine, Wisconsin

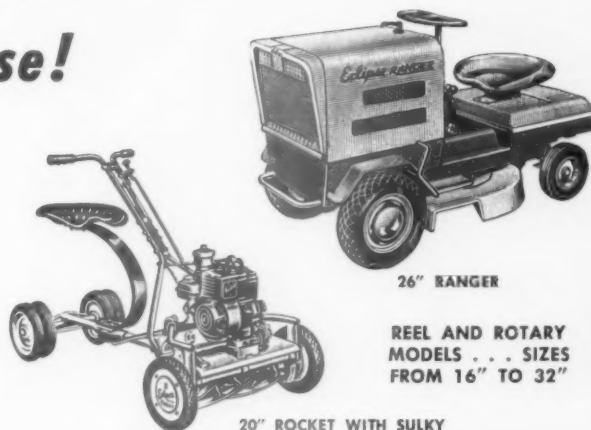
THE ECLIPSE LAWN MOWER CO.

Div. of Buffalo-Eclipse Corporation
827 Railroad St., Prophetstown, Ill.

Eclipse mowers cost less to use!

Eclipse's reputation for low cost operation is built on two factors: (1) they last years longer and (2) they're built to require a minimum of maintenance attention. As a result, when cost records are kept, Eclipse proves most economical and dependable.

Write for FREE catalog today.



26" RANGER

REEL AND ROTARY
MODELS . . . SIZES
FROM 16" TO 32"

20" ROCKET WITH SULKY

ECLIPSE REEL TYPE POWER MOWERS

MODEL	TYPE	WIDTH OF CUT	HEIGHT OF CUT	ENGINE 4 CYCLE—B&S H.P.	4 CYCLE—B&S RATED R.P.M.	STARTER	DRIVE	LUBRI-CATION	DAILY ACREAGE CAPACITY	RIDING SULKY
Lark	Reel	18"	1/2"-1 1/2"	1.75	3200	Recoil	Diamond Roller Chain	Oil cups	....	Optional Extra
Bel Mar	Reel	18"	1/2"-1 1/2"	1.75	3200	Rope or Recoil	Diamond Roller Chain	Oil cups	....	Optional Extra
Rocket Deluxe	Reel	20"	3/4"-1 1/2"	1.75	3200	Recoil or 110V. elect.	1/4" Diamond Roller Chain	Oil cups	...	Optional Extra
Parkhound	Reel	21"	3/4"-1 1/2"	2.25	3600	Recoil or 110V. elect.	5/16" Diamond Roller Chain	Zerk fittings	2-4	Optional Extra
Rolloway	Reel	25"	3/4"-2 1/2"	2.5	3600	Rope	5/16" Diamond Roller Chain	Zerk fittings	3-5	Optional Extra
Speedway	Reel	32"	1"-2 1/2"	5.1	3200	Crank	3/8" Diamond Roller Chain	Zerk fittings	7-15	Optional Extra

*Also available in Hi-Cut Model to cut from 1 1/4" to 2 1/4".

Only Eclipse mowers have fatigue-free, natural-grip handles.

All reel type mowers have adjustable reel bearings and are available with automatic sharpeners (optional extra).

ECLIPSE ROTARY POWER MOWERS

MODEL	TYPE	WIDTH OF CUT	HEIGHT OF CUT	ENGINE 4 CYCLE—B&S H.P.	4 CYCLE—B&S RATED R.P.M.	STARTER	BLADE DRIVE	WHEEL BEARINGS	HOUSING	SULKY
Pal	Rotary	17"	1"-2" & 2 1/8"	Power Products 2 cycle Develops 2 H.P. at 3400 R.P.M.		Rope	Vertical shaft	Steel Roller Bearings Through-out	One piece pressed Steel Housing (Cast aluminum alloy on 19" and 21" front discharge models and on 26" Ranger)	No
Duo-Master	Rotary	17"	1"-1 1/4" 2 1/4"-3"	1.75	3600	Rope or Recoil	Direct connected (Special safety slip coupling)			No
Duo-Master	Rotary	19"	1"-1 1/4" 2 1/4"-3"	2.25	3600	Recoil or 110V. elect.	Direct connected (Special safety slip coupling)			No
Century	Rotary	20"	1"-3"	2.25	3600	Recoil	Direct connected (Special safety slip coupling)			No
Top-Way	Rotary	20"	1"-3"	2.25	3600	Recoil	Direct Connected (Special safety slip coupling)			No
Duo-Master	Rotary	21"	1"-1 1/4" 2 1/4"-3"	2.75	3600	Recoil or 110V. elect.	Direct connected (Special safety slip coupling)			No
Duo-Master (Self prop.)	Rotary	21"	1"-3 1/4"	2.75	3600	Recoil	Direct Connected* (Special safety slip coupling)			No
Ranger	Riding Rotary	26"	1 1/2"-4"	5.25	3600 (6 to 1 gearing)	Crank	V-Belt †			

*Traction drive: V-Belt thru 2-speed gear box.

†Traction drive: Gear box and automotive differential.

ECLIPSE HAND MOWERS

MODEL	WIDTH OF CUT	HEIGHT OF CUT	REEL	CUTTER BLADE ADJUSTMENT	WHEELS	ROLLER	HANDLE
*Eclipse "L" (Std.)	16" or 18"	1/2"-1 1/2"	5 blade, 4 spider reel, cylindrically ground	Single thumb screw	Rubber-tired	Rubber-covered	All steel natural grip
*Eclipse "L" (Hi-Cut)	16"	1"-2"	5 blade, 4 spider reel, cylindrically ground	Single thumb screw	Rubber-tired	Rubber-covered	All steel natural grip
Arlington	16" or 18"	1/2"-1 1/2"	5 blade, 4 spider reel, cylindrically ground	4 Micro-adjusting screw	Rubber-tired	Seasoned maple	Seasoned maple

*Also Hi-Cut model in 16" size. All models equipped with automatic self-sharpener.

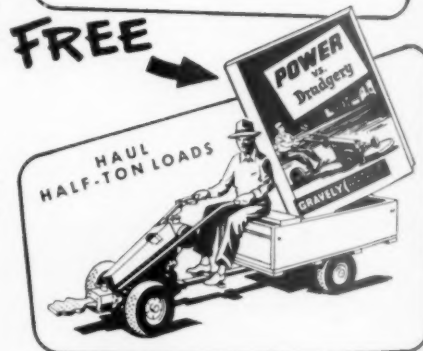
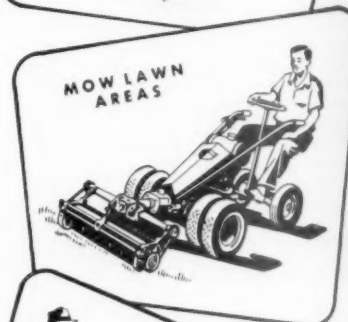
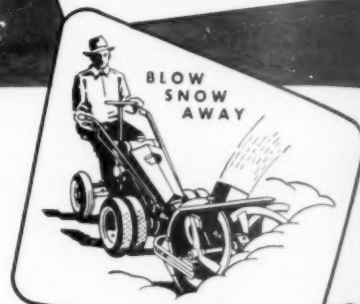
GRAVELY TRACTORS, INCORPORATED

Box 52, Dunbar, W. Va.



Only the
GRAVELY
does so many
Jobs so well!

Now! 30 Tools



IMPROVED STEERING SULKY for Fast Mowing . . . Accurate Control

The IMPROVED Steering Sulky makes handling the big Gravely 75-Inch Gang Mowers as easy as driving your car—with power steering! One finger on sharp turns . . . instant, *accurate* mowing and trimming. Mows a circle 14" in diameter . . . makes extreme right and left maneuvers with one full turn of the steering wheel!

NOW! . . . 30 ATTACHMENTS

Steering sulky and Gangs are only TWO of the 30 attachments for the Gravely Tractor that will save time, work and costs on your maintenance jobs. . . . On special order there are available such attachments as Lawn Aerator, Lawn Sweeper, 5' Seeder-Spreader, Drill for making holes for planting shrubbery, etc. . . . In fact, from large-area mowing to side-walk snow removal, the powerful 5-HP Gravely will do your maintenance jobs faster, easier, better—all year long!

Three Models to Fit Specific Jobs

Gravely now offers three models, with ground speeds to fit your particular jobs. The LS Model is geared to a ground speed maximum of 2 MPH; the LI to a maximum speed of 3 MPH; the L to a maximum speed of 4 MPH. All-gear drive, power reverse, Precision Steering, Optional Push-Button Starter.

Write for Big FREE Catalog . . .

Get Gravely facts FIRST . . . Free "Power vs. Drudgery" Booklet tells you how America's most efficient, most versatile small tractor can save you Labor, Time and Money! Write for it today!

GRAVELY TRACTORS, INC.

BOX 52

DUNBAR, W. VA.

PERFORMANCE-PROVED SINCE 1922



HAL-GAN PRODUCTS, INC.

Dept. AS, 13000 Blue Mound Road
Elm Grove, Wisconsin

Mow **LARGER** Lawn Areas — **FASTER** — In **FEWER** MAN-HOURS!

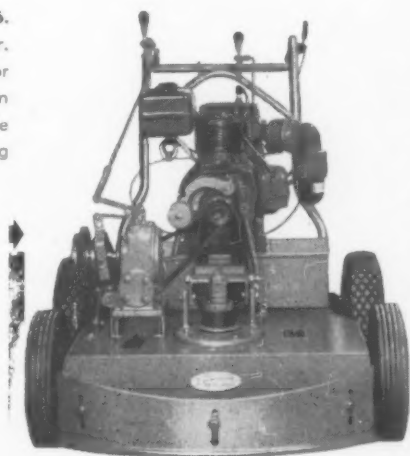
with **Spinaway**

**ROTARY
SUCTION MOWERS**



▲ **SPINAWAY Self-Propelled Model 31**, shown with riding sulky. . . . Full 9 H.P. engine, takes 31-inch cut to mow up to 1¼ acres an hour. Twin Disc Clutch equipped. Optional equipment includes: Reverse Gear running in oil, Riding Sulky, Leaf Mulcher.

SPINAWAY Self-Propelled Model 26. Easily mows up to one acre an hour. 6.7 H.P. engine, powerful enough for a riding sulky. Full 26-inch cut. Twin Disc Clutch equipped. Also available with Reverse Gear running in oil, Riding Sulky, Leaf Mulcher.



**SEE YOUR SPINAWAY
DEALER**—or phone or
write for descriptive folder
and prices.

Brute strength, combined with smoother power, make your large lawns seem much smaller—with fast and rugged **SPINAWAY** Mowers . . . "Flatten out" slopes and terraces, make quick work of heavy growth, get more work finished per hour, per day, with less effort. Mow up to 10 acres a day, with speed and sitdown ease. And every lawn is smooth, trim, neat, more uniform in depth because **SPINAWAY'S** powerful and original Rotary-Suction lifts even matted and flat-lying grasses into the cutting zone.

SPINAWAY Mowers are safer to use, too. They have a completely enclosed cutter unit—with adjustable front and free-swinging, hinged rear guards which prevent throwing! Superbly balanced for effortless handling—walking or riding—readily maneuverable, they cut close to trees, shrubs, walks, walls and other objects. Pneumatic rear tires, semi-pneumatic front tires operate on easy-rolling ball, roller, or needle bearings. **SPINAWAY'S** powerful engines start instantly, are simple to control, give you longer, more dependable service with minimum maintenance.

OTHER SPINAWAY MODELS:

Model 20—Hand propelled, 20-inch cut. Favorite for working smaller areas. Available with leaf mulcher.

Model 18—Trimmer-Mower—Full 18-inch cut; trims close and clean.

Model 10—Rotary Trimmer—eliminates all hand trimming, edging. 10-inch cut. Easy-handling.

Make yours SPINAWAY . . . today's high performance standard for modern lawn care in schools, parks, institutions.

WAYNE WORKS DIVISION

Divco-Wayne Corporation

Richmond, Indiana

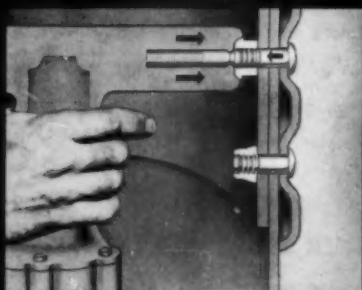


ALONE OFFERS

SUPER SAFETY



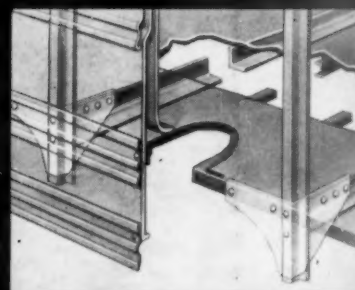
FEATURES LIKE THESE SAVE LIVES!



Only Wayne uses AUTOMATIC-LOCKING, HIGH-TENSILE HUCKBOLTS, five times stronger than rivets, to fasten all structurals and exterior panels. Results: For greater strength and safety—the quietest, most maintenance-free bus body ever built.



DROP-TYPE SAFETY WINDOWS, exclusive with Wayne, provide a full 12" opening for emergency escape. No bars to hinder exit nor obstruct visibility. These windows can be permanently stopped with less opening if desired. Split sash available.



LIFE-GUARD POSTS beside each seat, more than twice as thick as ordinary posts, have 40% more resistance to deflection by actual test. What's more, these posts are strongly anchored **below** the floor for maximum passenger protection.



SUPER-SAFETY is a great deal more than ordinary protection—it's *extra*, added protection, for the world's most important passengers—and only Wayne has it. Full-width windshield with greater down vision, continuous one-piece side rails, triple metal guard walls—these and many other features make the Wayne Superamic the choice of safety-conscious school bus buyers everywhere.

WAYNE WORKS DIVISION • RICHMOND, INDIANA
DIVCO-WAYNE CORPORATION

DISTRIBUTORS OF EDUCATIONAL EQUIPMENT AND SUPPLIES



Listings of distributors in this Directory are grouped alphabetically by regions as shown on the map above.

The following four types of firms who serve school buyers are included:

1. **School Supply Distributors.** These maintain local stocks of equipment and supplies. Many are members of National School Supply and Equipment Association, identified here by exponent numeral ¹.
2. **Distributors of Audio-Visual Products.** Among these, the members of National Audio Visual Association are identifiable by exponent numeral ².
3. **Laboratory Supply Firms,** who specialize in science equipment and apparatus. Most maintain stocks of the lines they handle. All are indicated by numeral ³.
4. **Manufacturers' Agents.** These firms are usually equipped to help in planning and installing the equipment they handle, but do not ordinarily stock it.

Region 1—New England States

The C. A. Bader Co., 654 Tolland St., E. Hartford 8, Connecticut
Baker Scaffolds

Bailey Film Service², 59 Chandler St., Worcester, Mass.

Robert A. Bennett, Hurricane Road, Keene, New Hampshire
Paris Manufacturing Company
Erickson Fold-A-Way Tables, Stages and Choral Risers
Columbia School Furniture
Dormitory and Institutional Furniture
Complete Furnishings, Equipment and Supply Line

Milton Bradley Co.¹, New England Division, 43 Cross St., Springfield 2, Massachusetts
Milton Bradley Art and Educational Materials
Milton Bradley Furniture
American Playground Device Equipment
Complete School Supply and Equipment
Blackboards

Cambosco Scientific Co.³, 37 Antwerp St., Boston, Mass.

Central Scientific Co.³, 79 Amherst St., Cambridge, Mass.

Cinema, Inc.², 234 Clarendon St., Boston 16, Mass.

The Claffin Co.³, 40 Mathewson St., Providence 3, R. I.

Doe & Ingalls, Inc.³, Vine & Garden Sts., Boston, Mass.

Eastern Scientific Co.³, 51 Bassett St., Providence, R. I.

Educational Aids Inc.³, 123 St. Mary's St., Boston, Mass.

Nat Fauce Audio-Visual Service², 69 Lakeside St., Riverside, R. I.

Flieg & Newbury², 41-45 Water St., Torrington, Conn.

Gledhill Bros., Inc.¹, 20 Chestnut Ave., Jamaica Plain, Boston 30, Mass.

H. B. Motion Picture Service², 174 George St., New Haven 10, Conn.

Robert C. Haines, 744 Beaver St., Waltham 54, Massachusetts
New England Representative for:
All-Steel Equipment, Inc.
Files—Desks—Chairs—Cabinets—Lockers
Meilink Steel Safe Company
Safes—Insulated Files—Machine Stands

J. L. Hammett Co.¹, Kendall Square, Cambridge 42, Mass.
American Seating Company, School Furniture
Binney & Smith Company, Crayola and Art Materials
Harbutt's Plasticine
Kindergarten Material and Furniture
Wayne Iron Works, Grandstands
Weber Costello Company, Hyloplate, Sterling and Litesite
School Supplies
Blackboards
Paper
Bulletin Boards
Composition and Examination Books
Hand Looms for Weaving and Occupational Therapy
Materials

Diplomas and Testimonials
Maps and Globes

Harrison Harries², 110 High St., Hartford 1, Conn.

Headlight Film Service², 111 Ocean St., S. Portland, Maine

Howe & French Inc.³, 99 Broad St., Boston 10, Mass.

Jackson Chairs Inc., 285 Columbus Ave., Boston 16, Mass.
Howe Folding Furniture, Inc.—Folding Tables
Shwayder Bros.—Samsonite Folding Chairs
Samsonite School Furniture
Vogel-Peterson Co.—Coat Racks, Checkroom Equipment
Platforms, Band and Choral Stands

Jarrell-Ash Company³, 26 Farwell St., Newtonville 60, Mass.

W. E. Kelsey and Sons, Inc., 634 Asylum Avenue, Hartford, Connecticut
Auditorium Seating—Griggs Equipment, Inc.
Cafeteria Furniture
Classroom Furniture—Griggs Equipment, Inc.
Filing Cabinets
Folding Chairs
Folding Tables—Howe Folding Furniture Company
Gymnasium and Playground Equipment—Pioneer Wagon Works
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Audio Film Center², 101 West 31st St., New York, N. Y.

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Dormitory Furniture and Bedding
Samsonite and Other Folding Tables, Chairs
- Hugh J. Baker and Co.**, 560 Citizens Bldg., Decatur, Illinois
Baker Scaffolds
- Hugh J. Baker and Co.**, 602 W. McCarty St., Indianapolis 6, Indiana
Baker Scaffolds
- Bartha Visual Education Service**², 1946 N. High St., Columbus, Ohio
- Birdsell Audio-Visual Co.**², 2901 Glendora, Cincinnati 19, Ohio
- A. M. Blood Company**¹, 326 20th Street, Rock Island, Ill.
American Seating Co.—School Furniture
- I. A. Bock School Service**¹, 628 Park Ave., Sycamore, Ill.
- Bowling Green Equipment Co.**, 624 Wallace Ave., Bowling Green, Ohio
Irwin Seating
General School Equipment Co.
Royal Mfg. Co. Laboratory & Home Economics
Scholar-Craft Desks and Tables
J. E. Porter Gymnasium Equip., Mats, Playground Equip.
Erickson Folding Tables, Band Stands, Portable Stages
Steelcase, All-Steel Office Desks, Chairs, Files
- Brice RCA Sales**², 4417-19 N. Saginaw St., Flint 5, Mich.
- Charles H. Bunch Co.**^{1, 2}, 337 W. Main St., Louisville 2, Ky.
- Burke Audio Visual Service**², 3264 N. Milwaukee Ave., Chicago 18, Ill.
- Burke's Motion Picture Co.**², 434 Lincoln Way, West, South Bend 1, Ind.
- Central School Supply Co.**¹, 315 W. Main St., Louisville, Ky.
- Central Scientific Co.**², 1700 Irving Park Road, Chicago 13, Ill.
- The Chemical Rubber Co.**², 2310 Superior Ave., Cleveland 14, Ohio
- Chicago Apparatus Co.**², 1735 N. Ashland Ave., Chicago 22, Ill.
- Chicago Seating Co.**¹, 914 S. Wabash Ave., Chicago 5, Ill.
- Clark Chemical & Supply Co., Inc.**², 1527 Miller St., Indianapolis 7, Ind.
- Condit Construction Products, Inc.**, 1026 W. Goodale Blvd., Columbus 8, Ohio, AXminster 4-3791
Branch: 2800 E. Third St., Dayton, Ohio, KENmore 1178
Brunswick School Furniture and Cabinets
Brunswick-Horn Folding Gymnasium Seating & Partitions
Brunswick Folding Stages and Basketball Backstops
Wall-Fol Tables
Clapper's Folding Tables
Haldeman-Homme Folding Tables
Korok Chalkboard, Corkboard and Trim
- Cosmopolitan Films**², 3248 Gratiot Ave., Detroit 7, Michigan
Victor Projection Equipment
Films of the Nations, Inc.
Film Rentals and Sales
Equipment Rentals
- Cousino, Inc.**², 2325 Madison Ave., Toledo 2, Ohio
- Crowley Thompson Chemical Co.**², Lederer Terminal, Foot of E. 9th St., Cleveland 14, Ohio
- D. T. Davis Co.**², 178 Walnut St., Lexington, Ky.
- D. T. Davis Co. of Louisville, Inc.**², 2000 Cherokee Pkwy., Louisville, Ky.
- E. C. Decker and Co., Inc.**, 1195 Gilbert Ave., Cincinnati 2, Ohio
Baker Scaffolds
- De Wald Audio Visual Equipment**², 4806 S. Logan St., Lansing 10, Mich.
- The Dobson-Evans Co.**¹, 1100 W. 3rd Ave., Columbus 8, Ohio
American Seating Co.—School and Auditorium Furniture
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Athletic Supplies and Equipment
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Ditto Duplicating Machines, Supplies and Papers
Everwear Playground Equipment
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Kewaunee Laboratory Furniture
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Pencils, Pens, Erasers and Office Supplies
School Class Registers, Records and Plan Books and Forms
School Notebooks, Tablets, Notebook Fillers and Ream Papers
Wood Bleachers and Folding Bleachers
- Eastern Hills Camera Co.**², 4903 Whetsel Ave., Cincinnati 27, Ohio
- Eberbach & Son Co.**², 200 E. Liberty, Ann Arbor, Mich.
- Educational Aids Service**², 3034 Thayer St., Evanston, Ill.
Motion Picture Projectors
Filmstrip and Slide Projectors
Opaque Projectors
Filmstrips and Slides
Reading Improvement Devices
- Eldridge Motion Pictures**², 4145 N. High St., Columbus 14, Ohio

Engleman Visual Education Service², 4754-58 Woodward Ave., Detroit 1, Mich.

B. F. Farnell Co.¹, 435 W. 7-Mile Road, Detroit 3, Mich.

Film Center, Inc.², 64 W. Randolph St., Chicago, Ill.

Films Unlimited², 137 Park Ave., W., Mansfield, Ohio

Fisher Scientific², 1458 N. Lamon Ave., Chicago 51, Ill.

Fried's Audio-Visual Center², 103 W. Front St., Bloomington, Ill.

Fryan Film Service², 1810 E. 12th St., Cleveland 15, Ohio

Garden City Educational Co.¹, 27 S. Wabash Ave., Chicago 3, Ill.

Gary Camera², 619 Washington, Gary, Ind.

General Biological Supply House, Inc.², 8200 S. Hoyne Ave., Chicago 20, Ill.

Cultures
Dissection Specimens—Plant and Animal
Charts
Models
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Skeletons
Apparatus and Instruments
Field Collecting Equipment

Gibson Equipment Co., 3440 E. 93rd St., Cleveland 4, Ohio
Baker Scaffolds

Gillespie Visual Education Service², 220 State St., St. Joseph, Mich.

The D. H. Goble Printing Co.¹, 15 S. East St., Greenfield, Ind.

John R. Green Co.¹, 411 W. Sixth St., Covington, Ky.

Hadden Films Inc.², 422 W. Liberty St., Louisville 2, Ky.

Ralph V. Haile & Assoc.², 326 E. Fourth St., Cincinnati 2, Ohio

Harpster Audio Visual Equipment, Inc.², 13902 Euclid Ave., Cleveland 12, Ohio

Harshaw Scientific, Div. of the Harshaw Chemical Co.², 9240 Hubbell Ave., Detroit 28, Mich.
Laboratory Instruments, Apparatus and Chemicals

Harshaw Scientific, Div. of the Harshaw Chemical Co.², 6265 Wiehe Rd., Cincinnati 13, Ohio
Laboratory Instruments, Apparatus and Chemicals

Harshaw Scientific, Div. of the Harshaw Chemical Co.², 1945 E. 97th St., Cleveland 6, Ohio
Laboratory Instruments, Apparatus and Chemicals

G. E. Henry Company, Inc.¹, 263 E. Long St., Columbus 15, Ohio

J. R. Holcomb & Co.¹, 1710 E. 22nd St., Cleveland 14, Ohio

Howard Company², 112 W. Wayne St., Ft. Wayne, Ind.

Henry P. Howe Company, 8 East Long St., Columbus 15, Ohio
Fred Medart Products, Inc. (Gymnasium Equipment)

Illini Supply Inc.¹, 240 W. Main St., Decatur, Ill.

Indiana Visual Aids Company, Inc.², 726 N. Illinois St., Indianapolis 4, Ind.

Jackson Photo Center², 148 W. Michigan, Jackson, Mich.

Jensen Sound & Movie, Inc.², 427 Detroit St., Flint 2, Mich.

Flint's Only Complete Sound Systems
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Judy Audio-Visual Service², P. O. Box 706, Mt. Vernon, Ohio

K & L Scientific Co.², 230 N. Front St., Columbus 16, Ohio
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Kay Surgical Inc.², 242 Jefferson, Lexington, Ky.

Kentucky School Equipment Co.¹, 117-125 S. 4th Ave., Louisville, Ky.

Frank W. Kerr Co.², 951 Porter St., Detroit, Mich.

Kiger & Co., Inc.¹, 1830 W. 16th St., Indianapolis 2, Indiana

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Hamilton Laboratory Furniture
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Weber-Costello Chalkboards, Globes, Maps
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Bell & Howell A. V. Equipment
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Viewlex Projectors
Kodak Verifax Copiers and Supplies
Radiant Screens
DaLite Screens

Theodore Kundtz Co.¹, 1420 W. 25th St., Cleveland 13, Ohio

Arthur S. La Pine & Co.², 6101 S. Knox Ave., Chicago 29, Ill.

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Reagent Chemicals
Kimble and Pyrex Brand Glassware
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- Lake-Land Educational Sales²**, 401 S. First St., Pierceton, Indiana
Audio-Visual Aids & Supplies
- R. E. Leggette Co.**, 9335 St. Stephens St., Dearborn, Michigan
Baker Scaffolds
- Leggette-Michaels Co.**, 3453 Eastern Ave., S. E., Grand Rapids 8, Michigan
Baker Scaffolds
- Levy's Film & Projection Service²**, 1648 Pullan Ave., Cincinnati 23, Ohio
- Link Equipment Co.**, 1935 Euclid Ave., Cleveland 15, Ohio
Arlington School Seating
Clarín Folding Chairs
Dudley Combination Locks
Hussey Folding Bleachers and Grandstands
Midwest Folding Tables and Choral Risers
- The George P. Little Co., Inc.**, 1313 Edgehill Road, Columbus 8, Ohio
Baker Scaffolds
- Locke Films, Inc.²**, 124 W. South St., Kalamazoo, Mich.
- Lundgren's Audio-Visual Education Service²**, 419 7th St., Rockford, Ill.
- James L. Lyon Co.**, 310 S. Peoria St., Chicago 5, Illinois
Baker Scaffolds
- M. H. Martin Company²**, 1118 Lincoln Way, E., Massillon, Ohio
Bell & Howell Audio-Visual Dealer
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Coronet Films, Sales and Rental
Beseler Opaque Projectors
Screens, Tape Recorders, Filmstrip Projectors
Repair Service for Projectors and Sound Equipment
- Charles Mayer Studios, Inc.²**, Bowery at Center St., Akron, Ohio
- McFadden Corp.¹**, 3011 E. Saginaw St., Lansing, Mich.
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SAMSON Classroom Furniture and Folding Tables and Chairs
SCHIEBER In-The-Wall, Port-A-Fold, Mobil-Fold, Transi-Fold and Flexo-Fold Tables and Benches
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- The McManus-Troup Co.**, 713-715 Jefferson Ave., Toledo, Ohio
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- Michigan Products, Inc.¹**, 1236 Turner St., Lansing 1, Mich.
- Michigan School Service, Inc.¹**, 312-314 N. Grand Ave., Lansing, Mich.
- Midwest Visual Equipment Co.²**, 3518 W. Devon Ave., Chicago 45, Ill.
- Miller Office Supply Co.¹**, 133 E. Main St., Piqua, Ohio
American Desk Mfg. Co.—School Classroom Furniture
Taylor Laboratory Equipment
Rice Window Shades and Draperies
International Auditorium Seating
Howell Playground Equipment
Sit-Rite Folding Chairs
Sico Folding Tables and Benches
Grade-Aid Equipment
Yardley Blackout Venetian Blinds
- Miller School and Office Supply Co.¹**, 475 Fayette St., Hammond, Indiana
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Shades and Blackout Curtains—Stage Curtains
Copyrite Liquid and Rex Mimeo Duplicators
School Supplies and Equipment
General Sta-Put Desks
- Meck & Morris**, 1802 E. 46th St., Indianapolis 5, Indiana
Krueger Folding Chairs, Tables & Trucks
- National China & Equipment Corp.¹**, 214-18 E. Fourth St., Marion, Indiana
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China—Glass—Silver
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- Newman Visual Education Co.²**, 783 W. Main, Kalamazoo, Mich.
Branch: 1049 Grandville Ave., S.W., Grand Rapids, Mich.
- Oglesby Equipment Co.¹**, 20356 Grand River Ave., Detroit 19, Michigan
Griggs School and Auditorium Seating
E. H. Sheldon Equipment Company Laboratory, Art, Homemaking, Music and Shop Equipment
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Playground and Gymnasium Equipment
Interior Steel Lockers, Cabinets
Porter Athletic Equipment, Basketball Backstops
Royal Manufacturing Classroom Cabinets
- The Orr, Brown & Price Co.²**, Spring & Front Sts., Columbus, Ohio
- Pfile Camera Shop²**, 100 E. Prairie, Decatur, Ill.
- Photo Service Inc.²**, 220 Graceland Ave., Des Plaines, Illinois
Headquarters for Audio Visual Equipment and Supplies
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Standard Filmstrip Projectors
DuKane Projectors and Sound Systems

Photo Sound Equipment Co.², 6544 S. Halsted St., Chicago, Ill.

Post's Audio-Visual Service², 107 S. E. Second St., Fairfield, Illinois

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Bell & Howell A-V Equipment
Chas. Beseler Products
Photographic Equipment and Supplies
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Projection Equipment Co.², Union City, Ind.

Nate Quillen², 281 Cardinal Drive, Willow Dale—Route 1, Medina, Ohio

The Randolph School Supply Co.¹, Champaign, Ill.

Rascher & Betzold, Inc.³, 730 N. Franklin St., Chicago 10, Ill.

W. H. Rodebeck Co.², 15 E. Maryland St., Indianapolis 4, Ind.

Rupp & Bowman Co.³, 315 Superior St., Toledo 3, Ohio

E. H. Sargent & Co.³, 4647 W. Foster Ave., Chicago 30, Ill.
Branches: 3125 7th Ave., N., Birmingham 4, Ala.
8560 W. Chicago Ave., Detroit 4, Mich.
5915 Peeler St., Dallas 35, Texas

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Shick Supply & Equip. Co.¹, 724 McReynolds Ave., Danville, Ill.

Smith & Butterfield², 305-7 Main St., Evansville 2, Ind.

Smith's Audio-Visual Service², 128 W. Washington, South Bend 8, Ind.

Vere Smith's Audio-Visual Service², 42 N. Court St., Athens, Ohio

Smitley Sound Service², 4850 Stellhorn Rd., Route 11, Ft. Wayne, Ind.

Standard School Company¹, 107 W. Washington St., St. Louis, Michigan
Irwin School Furniture
Milton Bradley Art Materials
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Steel Files and Storage Equipment
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Standard Duplicators
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National Laboratories N-L Concentrate
Vani-Sol and Duratex Concentrate Floor Protector

Sunray Films, Inc.², 2108 Payne Ave., Cleveland 14, Ohio

Todd Visual Service², 16019 Hamilton Ave., Detroit 3, Mich.

Tri-States Co., 3029 N. Austin Ave., Chicago 34, Ill.

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Twyman Films, Inc.², 400 W. 1st St., Dayton 1, Ohio

United Visual Aids Service², 5844 W. Addison St., Chicago 34, Ill.

Van's Audio-Visual Division², 1615 East Michigan Ave., Lansing, Mich.

Visual Service², 741 N. Lotus Ave., Chicago 44, Ill.

Visualcraft², 2740 Union St., Blue Island, Ill.

Wartburg Press², 57 E. Main St., Columbus, Ohio

Watland, Incorporated², 13039 S. Western Ave., Blue Island, Ill.

Wayne Camera & Visual Equipment Co.², 1231 E. State St., Ft. Wayne, Ind.

W. M. Welch Mfg. Company³, 1515 Sedgwick St., Chicago 10, Illinois

Laboratory Apparatus and Furniture
Biology Charts and Models
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Whipple Studio², Standish, Mich.

Wilkens-Anderson Co.³, 4525 W. Division St., Chicago 51, Illinois

Waco Semimicro Equipment
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Region 5—Virginia, North Carolina, South Carolina

Audio Fidelity Corp.², Patterson at Ridge Road, Richmond, Va.

Belew Sound & Visual², P. O. Box 653, Bristol, Va.

R. L. Bryan Co.², Audio Visual Dept., 1440 Main St., Columbia, S. C.
Complete Audio Visual Service
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Capitol Film & Radio Co., Inc.², 19 W. Main St., Richmond 20, Va.

Cardinal Products Inc.³, P. O. Box 1611, Durham, North Carolina
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Carolina School Supply Co., Inc.¹, P. O. Box 2185, Charlotte, North Carolina
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Howe Folding Tables
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Henry B. Gilpin Co.³, 128-33 W. Main St., Norfolk 10, Va.

Green's Audio-Visual Center², 4016 Kilbourne Road, Columbia, S. C.

M. W. Gunn Co.¹, 901 Summers Ave., Orangeburg, S. C.

Jim Harbin Co.¹, 1300 Sumter St., Columbia, S. C.

Hughes-Rankin Co.¹, Box 1628, 1229 Montlieu, High Point, N. C.

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Audio-Visual Equipment and Supplies
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Palmetto Pictures, Inc.², 721 Saluda Ave., Five Points, Columbia 11, S. C.

J. H. Pence Co.¹, Box 863, Roanoke, Va.

Phipps & Bird Inc.³, P. O. Box 2V, Richmond, Virginia
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Laboratory Apparatus
Laboratory Furniture
Plastic Fabricators
Plastic Supplies

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School Equipment, Inc.¹, P. O. Box 586, Siler City, North Carolina
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EDUCATORS Classroom Cabinets
Folding Chairs
Bleachers
Auditorium Seating

Southern School Service, Inc.², P. O. Drawer 867, Canton, N. C.

Southern School Supply Co., Inc.¹, 329 W. Hargett St., Raleigh, N. C.

J. M. Stackhouse Co.², 5803 Patterson Ave., Richmond 26, Va.

Tidewater Audio-Visual Center², 29 Southern Shopping Center, Norfolk 5, Va.

Virginia Audio-Visual Corp.³, P. O. Box 337, Fairfax, Va.

Virginia School Equipment Co., Inc.¹, 104 S. Foushee St., Richmond 20, Va.

Wilfong & Kendall School Supply Co.², 111 Arcade Bldg., Hickory, N. C.

W. A. Yoder², 714-16 N. Cleveland St., Richmond, Va.

Region 6—Tennessee, Mississippi, Alabama, Georgia and Florida

ABC School Supply, Inc.¹, 3225 Cains Hill Place, N. W., Atlanta 5, Ga.

Acousti Corp. of Miami, 3737 N. W. 53rd St., Miami 42, Florida
Baker Scaffolds

Acousti Engineering of Alabama, Inc., 546 N. 7th St., Birmingham, Alabama
Baker Scaffolds

Alabama Photo Supply², P. O. Box 3128, Montgomery, Ala.

Aloe Scientific Division of A. S. Aloe Co.³, 5050 Peachtree Road, Chamblee, Ga.

American Seating Co.¹, 354 Nelson St., S. W., Atlanta 3, Georgia
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Church Furniture
Stadium Seating
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Window Shades
Stage Equipment
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Science Equipment

Audio Visual Center², 216 12th St., Augusta, Ga.

Audio Visual Film Service, Inc.², 2114 Eighth Ave., N., Birmingham, Ala.

Biscayne Chemical Laboratories³, 200 N. E. 11th St., Miami 32, Fla.

Bowen Supply Co.¹, 106 N. Palmer St., Plant City, Fla.

Bowstead Movie Camera Shop², 1039 N. Orange Ave., Orlando, Fla.

Calhoun Co.², 121 Forrest Ave., N. E., Atlanta 3, Ga.

Capitol Visual Aids², 611 Dodds Ave., Chattanooga, Tenn.

Colonial Film & Equipment Co.², 71 Walton St., N. W. Atlanta, Ga.

Gordon S. Cook², P. O. Box 2306, Ft. Lauderdale, Fla.

W. H. Curtin & Co., Atlantic Scientific Div.³, P. O. Box 606, Jacksonville, Fla.

Educational Aids², Fairview & Highway 82, Greenville, Miss.

Estes Surgical Supply Co.³, 56 Auburn Ave., N.E., Atlanta 3, Ga.

Jasper Ewing & Sons², 227 E. Pearl St., P. O. Box 1153, Jackson, Miss.

Ferriss Distributing Co., 1302 N. Pace Blvd., Pensacola, Florida
Baker Scaffolds

Florida 16mm Film Service², 3117 Main St., P. O. Box 3224, Jacksonville 6, Fla.

Hall Steel Co., 1480 La France St., N. E., Atlanta, Georgia
Baker Scaffolds

Harvard's Film Library², 8 St. Francis St., Mobile 11, Ala.

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F. L. Hurn Pictures², P. O. Box 1959, Savannah, Ga.

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Folding Tables and Chairs
Classroom Furniture
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Martin School Equipment Co.¹, 303 Hamilton St., Jackson, Mississippi
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Howell Playground Equipment
Mitchell Fold-O-Leg Tables, Band and Choral Stands
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Palmer Furniture Co., Dormitory Furniture—Portable and Built-in
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Tony Martucci Co.², 901 Shady Lane, P. O. Box 2695, Orlando, Fla.

The McGregor Company¹, P. O. Box 752, Athens, Ga.

McKesson & Robbins Inc.³, 1706 First Ave., Birmingham 3, Ala.

Medical Supply Co.³, 735 N. W. 12th Ave., Miami, Fla.

Mileo Photo Shop², 2105 Ponce De Leon Blvd., Coral Gables, Fla.

Mississippi School Supply Co.^{1, 2}, 116 E. South St., Jackson, Miss.

John R. Moffitt Co., Inc.², 108 N. McDonough St., Montgomery, Ala.

Nashville Products Co.¹, 158 Second Ave., N., Nashville 3, Tenn.

Nashville Surgical Supply Co.³, 401 Church St., Nashville 3, Tenn.

Newton School Equipment Co.¹, P. O. Box 4334, Jacksonville, Fla.

Orben Pictures², 1615 Hendricks Ave., Jacksonville, Fla.

Photo-Sound Co.², 166 Church St., P. O. Box 63, Montgomery 4, Alabama
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DuKane Tape Recorders, Projectors and Sound Systems
Westinghouse, Projection and Photo Lamps
"Scotch" Sound Recording Tape
16mm Sound Film Rental Library

Photomart², 228 S. Franklin St., Tampa 2, Fla.

Photosound of Orlando², 1020 N. Mills St., Orlando, Fla.

E. H. Sargent & Co.³, 3125 Seventh Ave., N., P. O. Box 1550, Birmingham 4, Ala.

School Equipment Distributor², 6 Marlborough St., Montgomery, Ala.

School Products Co.¹, 1544 Madison, Memphis 12, Tenn.

Seban, Inc.², 404 11th St., Columbus, Ga.

Herschel Smith Co.², 119 Roach St., Jackson 5, Miss.
Audio-Visual Service and Rental Film Library

Snap Shop, Inc.², 615 S. Gay St., Knoxville 2, Tenn.

Southern Photo & News², 608 E. Lafayette St., P. O. Box 503, Tampa 2, Fla.

Southern Visual Films², 687 Shrine Bldg., Memphis 1, Tenn.

Standard School Service^{1,2}, 3827 First Ave., N., Birmingham 6, Ala.

Stevens Pictures of Florida, Inc.², 9536 N. E. Second Ave., Miami 38, Fla.

Stevens Pictures Inc.², 101 Walton St., Atlanta 3, Georgia
Audio Visual Equipment and Suppliers
RCA Audio Visual Equipment and Service
Entertainment Film and Equipment Rentals

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Bell & Howell Special Representative
S.V.E. Films, All Types of Audio Visual Equipment
Oliver C. Steele Window Shades, Stage Curtains and Drapes

Region 7—N. & S. Dakota, Iowa, Minnesota, Wisconsin, Northern Michigan and Manitoba, Canada

Allied Construction Services, Inc., 412 E. Grand Ave., Des Moines, Iowa
Baker Scaffolds

Artz Camera Supply Co.², 416 S. Main St., Aberdeen, S. Dakota

Augsburg Publishing House², 425 S. Fourth St., Minneapolis, Minn.

Blackhawk Films, Inc., Div. of the Eastin-Phelan Corp.², 1235 W. 5th St., Davenport, Iowa

Brask Office & School Supply¹, 5810 Seventh Avenue, Kenosha, Wisconsin
Heywood-Wakefield—School Furniture and Auditorium Seating
Wayne Iron Works—Rolling Gymstands, Gym Partitions and Bleachers, Basketball Backstops
National School Furniture—Multi-Purpose Classroom Cabinets
Midwest Folding Products—Folding Tables, Caddies, Choral and Band Risers, Portable Stages and Portable Table Bench
Bentson Mfg. Co.—Steel Office Furniture
Imperial Desk Co.—Wood Office Furniture
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Virco Folding Chairs and Furniture
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Nibro Wet Strength Towels, Janitorial Supplies
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Technical Products Co.³, 19 N. Dunlap, P. O. Box 93, Medical Center, Memphis, Tenn.
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School Furniture and Seating
Scientific Supplies
File Cabinets—Desks and Tables
Microscopic and Photographic Equipment

Tennessee Equipment & Supply Co.¹, 116 2nd Ave., N., Nashville 3, Tenn.

Tennessee Visual Education Service², 416A Broad St., Nashville, Tenn.

Visual Education Co., Inc.², 2114 8th Ave., S., Nashville, Tenn.

Vulcan Service Co.¹, 1st Ave. N. at 13th St., Birmingham 3, Ala.

Walter Paper Co., Inc.¹, 3850 Bird Road, Coral Gables, Fla.

Will Corporation of Ga.³, 890 Chattahoochee Ave., N. W., Atlanta 1, Georgia
Laboratory Instruments, Apparatus and Chemicals

Wilson-Weesner-Wilkinson Co., 310 S. Second St., Nashville 6, Tennessee
Baker Scaffolds

The Camera Shop Ltd.², 350 Donald St., Box 787, Winnipeg, Manitoba, Canada

Carlton Films², 1622 Yates Avenue, Beloit, Wisconsin
Audio Visual Equipment, Service and Sales, and Materials

Carr-Adams & Collier Co., Jobbing Division, P. O. Box 667, Dubuque, Iowa
Use "Bilt-Well" Wood Cabinets for Home and School Kitchens, Wardrobes and Storage—Also Bilt-Well Awning and Bilt-Well "Super 7" Weatherstripped Window Units
Build Well with Bilt-Well

Central Audio Visual Supply², 308 E. Grant Ave., Eau Claire, Wisc.

Century Audio-Visual², 22 South 7th St., Minneapolis, Minn.

Christie School Supply, Ltd., P. O. Box 400, Brandon, Manitoba, Canada
American Seating Company
Weber-Costello Company
Duplicating Machines and Supplies
Scientific Apparatus and Chemicals
Complete School Supplies and Equipment

Colborn School Supply Co.^{1, 2}, Grand Forks, N. Dakota
Classroom and Office Furniture
Duplicating Machines and Supplies
Audio-Visual Materials
Janitor Equipment and Supplies
Stage and Auditorium Furnishings
Gymnasium Equipment and Athletic Supplies
Laboratory Equipment

Coleman School Supply Co.¹, Coleman, Wisconsin

Community Camera², 506 Main St., La Crosse, Wisconsin
Bell & Howell Audio-Visual Specialists

Decker Brothers Inc.², 209 N. Federal, Mason City, Iowa
Bell & Howell Audio Visual Dealer
Sales and Service

Eastin Pictures, Div. of The Eastin-Phelan Corp.², 1235 W. 5th St., Davenport, Iowa

Eau Claire Book & Stationery Co.¹, Eau Claire, Wisconsin
American Seating Co.
Berger Steel Lockers
Ditto, Inc. Duplicators and Supplies
Luther O. Draper Window Shades
Jam Handy Slidefilms and Motion Picture Films
Safway Telescoping Bleachers
Porter—Gym Equipment—Basketball Backstops
Schieber Folding Tables
Writing and Bulletin Boards
Complete School Supplies and Equipment

Educator Supply Co.¹, 309-11 N. Lawler St., Mitchell, S. Dakota
Brunswick School Furniture and Classroom Cabinets
Cram Maps and Globes
Leonard Peterson Laboratory Equipment
Weber-Costello Co. Products
Society for Visual Education, Inc. Products
All-Steel Equipment Co. Lockers, Files, Cabinets, Desks, Chairs
Jasper Wood Furniture
Complete Supply and Equipment Service for Schools Since 1890

Elliott Film Co.², 1112 Nicollet Ave., Minneapolis 3, Minn.

Farnham Stationery School Supply Co.¹, 301 S. 5th St., Minneapolis 15, Minn.

R. H. Fiath Company², 2410 N. Third St., Milwaukee 12, Wisc.

Fond du Lac School Supply Co.¹, 36 S. Main St., Fond du Lac, Wisconsin
Burke Playground Equipment
DuPont Tontine Shades
A. J. Nystrom Maps
Peabody Seating
Royale School Papers
School Supplies and Equipment

Gallagher Films, Inc.², 137 N. Oakland Ave., Green Bay, Wisc.

Haldeman-Homme, Inc., 2580 University Ave., St. Paul, Minn.
Erickson Portable Tables, Stages, Band & Choral Stands
Telescoping Gym Seats, Lockers & Gym Equip. by Medart

Gym Partitions and Classroom Wardrobes by Emco
Laboratory Furniture by Hamilton Mfg. Co.
Library Furniture by Sjostrom
Folding Chairs by Clarin
Homemaking Furniture by Mutschler
Complete School Equipment

Harold's Photography², 308 S. Phillips Ave., Sioux Falls, S. Dakota

Hart Audio-Visual Center², 26 N. First Ave., E., Duluth 2, Minn.

Hauenstein & Burmeister, Inc., School and Equipment Div., 2629 30th Avenue, S., Minneapolis 6, Minn.

For the Classrooms:

Brunswick—School Furniture and Cabinets
Brunswick-Horn—Folding Stages and Wardrobes
American Desk Co.—School Furniture

For the Gymnasium:

Brunswick-Horn—Folding Gymnasium Seating and Folding Partitions
M. D. Brown—Scorer-master Scoreboards
Recreation Equipment—Backstops and Playground and Pool Equipment
Narragansett—Gymnasium Equipment

For the Special Department Classrooms:

Standard Pressed Steel—School Shop Furniture
Sheldon—Arts and Crafts, Homemaking, Shop and Science

Jamestown—Unit Kitchens
Standard Wood Products—Library Furniture
Coppes-Napanee—Home Economic Units

General Equipment:

Berger—Steel Lockers, Wardrobes and Shelving
Snyder Tank & Arrow—Outside Grandstands & Bleachers
Borroughs—Coat and Hat Racks
Arco Coat and Hat Racks
Fort Smith, Clappers and Rol-Fol—Folding Tables
N. Y. Standard—Chalk and Cork Boards
Corry-Jamestown—Steel Office and School Furniture
Sturgis—Office and School Steel Chairs
Cosco—Office Furniture
Mackin—Visual Education Blinds
Brunswick-Mengel—Dormitory Casework

Hawkins Chemical Co.², 3100 E. Hennepin Ave., Minneapolis 13, Minn.

Holley School Supply Co.¹, 100 E. Grand Ave., Des Moines 7, Iowa

Hunt Supply¹, Wautoma 1, Wisconsin
American Desk Classroom Furniture
Educator Classroom Cabinets and Furniture
Rice Window Shades
Complete Line of School Supplies and Equipment

Insulation Sales Co., 20 Lakeside Ave., Minneapolis, Minnesota
Baker Scaffolds

P. M. Johnson's School & Office Equipment¹, 705½ S. Broadway, Rochester, Minn.

Wm. L. Kittelberger, 2708 South 44th St., Milwaukee 19, Wisconsin

ERICKSON—Folding Cafeteria Tables With or Without Benches, Folding Stages, Band and Choral Risers
E-Z-FOLD—Electrically Operated Basketball Backstops
UNIVERSAL—Folding Gymnasium Bleachers, Outdoor Portable Steel or Wood Bleachers

- Loabs, Inc.**³, 1937 W. Vliet St., Milwaukee 5, Wisc.
- Lane Audio-Visual Co.**², Carroll, Iowa
- J. S. Latta & Sons**¹, 2218 Main St., Cedar Falls, Iowa
- Marshfield Book & Stationery, Inc.**¹, Marshfield, Wisconsin
 Irwin Seating Co.—School Desks
 Howell Playground Equipment
 Charles L. Rice—Window Shades
 Shaw-Walker—Office Equipment
 School Supplies and Equipment
- Metropolitan Supply Co.**¹, 602 Third St., S.E., Cedar Rapids, Iowa
- Meuer Photoart House, Inc.**², 411 State St., Madison 3, Wisc.
- Mid-America Films**², Lyons, Wisconsin
- Midwest Audio-Visual Co.**², 10 W. 25th St., Minneapolis 4, Minn.
- Midwest-Beach Company**¹, 233 South Phillips Ave., Sioux Falls, S. Dakota
 Heywood-Wakefield School Seating
 Weber-Costello Chalkboards
 Universal Bleachers
 Hamilton Laboratory Furniture
 Samsonite Folding Products
- Midwest Visual Education Service**², 1108 High St., Des Moines, Iowa
- Milwaukee Equipment Co.**, 4221 N. 35th St., Milwaukee, Wisconsin
 Austral and Emco Classroom Wardrobes
 Hamilton Laboratory Equipment
 Invincible Steel Desks and Letter Files
 Nucite Glass Chalkboards and Aluminum Trim
 Sjostrom Library Furniture
- Miner Office & School Supply**¹, 407 Main St., Watertown, Wisc.
- Moen Photo Service**², 313 Main St., La Crosse, Wisc.
- Museum of Visual Materials**², Gayville, S. Dakota
- National Camera Exchange**², 86 S. 6th St., Minneapolis 2, Minn.
- National Equipment Co.**², 7 E. Michigan St., Duluth 2, Minn.
- W. E. Neal Slate Company**, 1121 Dartmouth Ave., S. E., Minneapolis, Minnesota
 The Upper Midwest's Only Complete Chalkboard Service
- Northern School Supply Co.**¹, N. P. Ave., & 8th St., Fargo, N. Dakota
 American Seating Co., School Furniture
 Bell & Howell Co., Projection Equipment
 Ditto Duplicator and Supplies
 Draper Shades
 Medart Gymnasium Seating and Equipment
 Mitchell Fold-O-Leg Tables, Band and Choral Stands
 E. H. Sheldon & Co., Laboratory Equipment
 Stagecraft, Draperies, Hardware and Lighting
 Weber-Costello Co., Hyloplate and Sterling Litesite
- Northwest Projector & Supply**², 319 E. Central Ave., Minot, N. Dakota
- Photoart Visual Service**², 840 N. Plankinton Ave., Milwaukee, Wisconsin
 Audio-Visual Equipment and Sound Systems
- Pigott Supply Co.**, 3815 Ingersoll Ave., Des Moines 12, Iowa
 Clarin Manufacturing Co.—Folding Chairs
 E-Z-Fold Inc.—E-Z-Fold Basketball Banks
 Fleetwood Furniture Co.—Fleetwood Movable Classroom Cabinets
 Griggs Equipment Co.—School and Auditorium Seating
 Leonard Peterson, Inc.—Laboratory Equipment
 Safway Steel Products Co.—Safway Bleachers
 Schieber Mfg. Co.—In-Wall Table and Bench Units
- Pratt Sound Films, Inc.**², 701 3rd Ave., S.E., Cedar Rapids, Iowa
- Roa's Films**², 1696 N. Astor St., Milwaukee 2, Wisconsin
 Complete Film Rental Service, Entertainment, Educational, Religious, Over 4,000 Titles, Free Catalog
 Educational and Religious Filmstrips and Projectors
- St. Paul Book & Stationery Co.**², 55 E. 6th St., St. Paul 1, Minn.
- School Equipment Consultants, Inc.**, 11219 W. Bluemound Road, Milwaukee 13, Wisconsin
 Brunswick—School Furniture and Classroom Cabinets
 Brunswick-Horn—Folding Partitions; Gym Seating; Basketball Backstops; Stages and Wardrobes
 Clarin—Folding Chairs and Folding Tablet Arm Chairs
 Sico System of Folding, Rolling Tables
 Pawling—Custom Rubber Link Entrance Mats
 Korok—Steel Chalkboard, Tackboard and Trim
 Barricks Folding Tables
- Standard Audio-Visual Service**², 4100 Raleigh Ave., Minneapolis, Minn.
- Taylor Films**², Huron, S. Dakota
- Triangle School Service**¹, 1401 C Ave., Sioux Falls, S. Dakota
- United Chemical Co.**¹, 2115 Como Ave., S.E., Minneapolis, Minn.
- Universal School Suppliers**¹, 1800 Rogers Ave., Appleton, Wisc.
- Upper Des Moines Publishing Co.**, 111 E. Call St., Algona, Iowa
 Irwin School Seating
 Rowles School Equipment
 Art Metal Shelving, Equipment
 Invincible Metal Furniture
 School Paper Supplies
- Upper Peninsula Office Supply Co.**¹, Marquette, Mich.
- Edward T. Ver Halen, Inc.**, 778 N. Jefferson St., Milwaukee 2, Wisconsin
 Baker Scaffolds
- Geo. T. Walker & Co.**³, 324 5th Ave., S., Minneapolis, Minn.
- Wisconsin Sound Corp.**², 3821 N. Green Bay Ave., Milwaukee 8, Wisc.
- Wisconsin Typewriter & Supply Co.**, 1306 Tower Ave., Superior, Wisconsin
 School Furniture and Supplies

Region 8—Missouri, Kansas, Nebraska

All-Star Pictures, 709 Westport Road, Kansas City 11, Missouri
Extensive Entertainment Film Library—Also Free Loan

Aloe Scientific, Division of A. S. Aloe Co.³, 5655 Kingsbury, St. Louis, Missouri
Laboratory Furniture, Apparatus and Chemicals

American School Materials Co., 4950 Tracy, Kansas City 8, Missouri
Arlington Seating Co.—Classroom Seating
Irwin Seating Co.—Classroom and Auditorium Seating
Ideal Seating Co.—Auditorium Seating
Schieber Mfg. Co.—Folding Lunchroom Tables
Eureka-Williams Classroom Furniture

Athletic Supply Co., 1110 E. 47th St., Kansas City 10, Missouri
Berlin-Chapman Ez-A-Way Folding Bleacher Seating
Portable Bleachers and Permanent Grandstands
Fair-Play Electric Scoreboards
Game-Time Playground Equipment
Narragansett Gymnasium Equipment and Basketball Backstops
Lyon Steel Lockers and Gymnasium Baskets

Audio-Visual Services, Inc.², 1417 Grand Ave., Kansas City, Mo.

Ron Bales Sales Agency, P. O. Box 481, Emporia State Bank Bldg., Emporia, Kansas
Berlin-Chapman Gym Seats, Bleacher Seats
Interstate Adjustez Corp.—Typing and Accounting Tables
Metalab Equip. Co.—Laboratory Furn. in Wood and Steel
Library and Classroom Furniture
Chalk Board and Cork Board

Frank Bangs Co.², 233 Ida, Wichita 7, Kansas

Blackwell-Wielandy Co.^{1, 2}, 1601 Locust St., St. Louis 3, Missouri

Bowles School Supply Co.¹, 1015 N. Broadway, Pittsburgh, Kansas
American Desk Mfg. Co. Furniture
Complete School and Athletic Supplies
Hubert Mitchell Stage Equipment
Hussey Mfg. Co. Bleachers
Krueger Folding Chairs
Taylor Mfg. Co.—Laboratory Equipment

Britt Visual Aid Service², 22 Jefferson Road, Webster Groves 19, Missouri

Bubb & Thomson, Inc., 603 Topeka Blvd., P. O. Box 1014, Topeka, Kansas
Universal Folding Gym Stands
E-Z-Fold Electrically Operated Backstops
Berger Steel Lockers
Leonard Peterson Science and Laboratory Equipment
Tolerton Shop Equipment
Lyons Folding Chairs
Loxit Systems Chalk and Tackboard

Buxton & Skinner Printing & Stationery Co.¹, 306 N. 4th St., St. Louis 2, Missouri
Griggs Seating Equipment
Art Metal Office and Library Equipment
Mitchell "Fold-O-Leg" Tables
Mitchell Band and Choral Stands
School Supplies

The Edwards Press¹, Osceola, Missouri

Embassy Enterprises, Inc.², 7366 Winchester Drive, St. Louis 5, Missouri

Erker Bros. Optical Co.², 908 Olive St., St. Louis 1, Missouri

Fisher Scientific³, 2850 S. Jefferson Ave., St. Louis 18, Missouri

E. H. Fording Co., 6434 Baltimore Ave., P. O. Box 7094, Kansas City 13, Missouri
Fred Medart Products—Gym Apparatus, Basketball Backstops, Scoreboards, Telescopic Gym Seats, Lockers
New York Silicate Chalkboards and Corkboards
Deluxe Storage and Library Shelving
Angle Steel, Inc.—Stools and Shop Equipment
Clarín Folding Chairs
Playtime Outdoor Bleachers

Bob Gaskins' Industrial Photo Sales³, 631 E. Harry, Wichita, Kansas

A. J. Griner Company³, 1827 McGee St., Kansas City 8, Missouri

H & H Mfg. Co., Inc., 1220 W. 13th St., Joplin, Missouri
"Ajax The Folding Table"
Sold in 43 States
"H & H Products Must Be Good"
Over 7,000 Variations

B. R. Harris & Co.², 508 Jackson St., Chillicothe, Missouri

Heil Scientific, Inc.³, 214 S. Fourth St., St. Louis 2, Missouri
Laboratory Equipment and Chemicals

Henges Co., Inc. of Kansas City, 2619 Grand Ave., Kansas City 8, Missouri
Baker Scaffolds

Hicks-Ashby Co.¹, 3006 Holmes, Kansas City 9, Missouri
Peabody School Furniture
Draper Window Shades
Sico Portable Table and Bench Units
E. H. Sheldon Equipment
Fleetwood Flexible Storage Units
Universal Bleachers

Hoover Brothers^{1, 2}, 1020 Oak St., Kansas City, Missouri
American Seating Co.—Classroom and Auditorium
Kewaunee Mfg. Co.—Laboratory and Hospital
Bell & Howell—Cameras and Projectors
Mutschler Bros.—Homemaking Equipment
Complete Line of School Supplies and Equipment

Kansas City Laboratory Supply Co.³, 307 Westport Road, Kansas City 6, Missouri

Kansas City Sound Service², 1402 Locust St., Kansas City 6, Missouri

J. G. Kretschmer & Co.², 315 S. 17, Omaha, Nebraska
Projectors: Bell & Howell, TDC, Beseler, Eastman
Audio Visual, Repairs, Supplies, Lamps, Tubes, Tapes
Recorders, VuGraph, Opaque, 2 x 2, Filmstrip, Films, P. A.
Photo Supplies, Bolex, Argus, Zeiss, Rollei, Developing

- Lassiter Reminder Co.**², Uptown Theatre Bldg., Columbia, Missouri
- Leffingwell's Audio-Visual**², 210 S. Santa Fe, Salina, Kansas
Complete Audio Visual Service
- Earl S. Lewis and Co., Inc.**, 708 Woodmen of the World Bldg., Omaha 2, Nebraska
Baker Scaffolds
- Lewis Film Service**², 1425 E. Central, Wichita 2, Kansas
- Midwest Projection Equipment Corp.**², 3743 Gravois Ave., St. Louis, Missouri
- Model Publishing & School Supply Co.**¹, 1602-08 Hodiamont Ave., St. Louis 12, Missouri
- Modern Sound Pictures, Inc.**², 1410 Howard St., Omaha 2, Nebraska
- Modern Talking Picture Service**², 3718 Broadway, Kansas City 11, Missouri
Extensive Library of Free-Loan 16mm Sound Films
- Messer-Wolf, Inc.**², 1107 Massachusetts, Lawrence, Kansas
- National Chair & Furniture Co.**, 1151 South Broadway, St. Louis 4, Missouri
Arlington Seating Co.—Complete Classroom Seating
Durham Mfg. Co.—Steel Folding Chairs
Dettra Flag Co.—Flags and Banners, All Types
Globe Mfg. Company—Classroom Desks
Howe Folding Furn. Co.—Folding Banquet Tables
Jasper Seating Co.—Wood School and Office Chairs
Imperial Desk Co.—Wood Teachers and Office Desks
Midwest Folding Products—Folding Chair and Table Trucks
Mitchell—Folding Tables—Stage Risers, Etc.
National Store Fixture Co.—Cafeteria Chairs and Tables
Royal Metal Mfg. Co.—Steel Lounge Furniture and Stools
Shwayder Bros. Inc.—Samsonite Steel Folding Chairs
Toledo Metal Furn.—Steel Chairs and Stools
Virco Mfg. Co.—Folding Banquet Tables and Chairs
- Omaha School Supply Co.**¹, 1113-17 Nicholas St., Omaha 2, Nebraska
Educators Manufacturing Co.
Peabody School Seating
Leonard Peterson Laboratory Equipment
Hubert Mitchell Stage Curtains
Binney & Smith Company—Art Materials
Weber-Costello Chalkboard and Maps
School Supplies
- Reed A-V Company**², 167 S. Elm Ave., Webster Groves, Missouri
- Region 9—Washington, Oregon, Montana, Idaho, 1/2 Wyoming (Northern), Alaska, Alberta, B.C., and Saskatchewan, Canada**
- Associated Visual Services, Ltd.**², 2234 Granville St., Vancouver, B. C., Canada
- Audio-Visual Center Inc.**², 1205 N. 45th St., Seattle, Wash.
- Audio Visual Consultants, Inc.**², 305 N. 9th St., Boise, Idaho
- Roberts Supply Co.**², 1330 Fairmount, Wichita 14, Kansas
- W. Schiller Co.**², 1101 Clark St., St. Louis, Missouri
- School & Park Supply Co., Inc.**¹, 1650 S. Broadway, Box 2867, Wichita 11, Kansas
- School Specialty Supply, Inc.**¹, Salina, Kansas
- Steve Smith Cameras, Inc.**², 623 Kansas Ave., Topeka, Kansas
Bell & Howell Sales and Service
Beseler Sales and Service
Graflex Sales and Service
Complete Line Audio-Visual and Photographic Equipment
- Southwest Scientific Corp.**², 122 S. St. Francis St., Wichita 2, Kansas
Pyrex and Kimble Glassware
Mallinckrodt and Merck Reagent Chemicals
Mathewson-Coleman and Bell Organic Chemicals
Precision Scientific Equipment
General Laboratory Supplies and Equipment
- Stanley Photo Service**², 108 N. Broadway, St. Louis 1, Missouri
- Stephenson School Supply**², 935 O Street, Lincoln 1, Nebraska
Brunswick School Furniture and Equipment
R.C.A. Sound and Visual Products
Viewlex Projectors
Sheldon Laboratory Equipment
Geneva Homemaking Equipment
Draper Shades
- M. J. Struckel and Co.**, 3216 Big Bend Blvd., St. Louis (Maplewood) 17, Missouri
Baker Scaffolds
- Swanks, Inc.**², 621 N. Skinker Blvd., St. Louis, Missouri
- Thacher, Inc.**¹, 424 Quincy, Topeka, Kansas
- University Publishing Co.**¹, 1126 "Q" Street, Lincoln 1, Nebraska
Branch: 1508 Main, Kansas City, Missouri
Audio Visual Equipment and Supplies
Ditto Duplicators and Supplies
Hamilton Laboratory Equipment
Heywood-Wakefield School and Auditorium Seating
Recreation Playground and Gym Equipment
Wayne Gym Stands and Bleachers
Complete Supply and Equipment Lines
- Wolfe's Camera Shops, Inc.**², 106 W. 8th St., Topeka, Kansas
- Audio-Visual Supply Co.**², 429 S. W. 12th Ave., Portland 5, Oregon
- Cine Craft Co.**², 611-15 S. W. 13th, Portland 5, Oregon
- Frank D. Cohan, Inc.**¹, 1929 S. W. 6th Ave., P. O. Box 1402, Portland 7, Oregon

- Branch: 419 Third Ave., W., Seattle 99, Washington
 American Desk Mfg. Co.—School and Auditorium Furniture
 All-Steel Equipment, Inc., Lockers, Cabinets, Shelving and Office Furniture
 Berlin-Chapman Co.—Telescoping Gymseats, Bleachers
 Cohan Basket and Rack Equipment
 Fair-Play Electric Scoreboards and Sports Timers
 New York Silicate—Chalkboards and Trim
 J. E. Porter Corp.—Gymnasium, Basketball and Playground Equipment
 Yale and Towne Locker Locks and Padlocks
 Dudley Locker Locks and Padlocks
- Crescent Movie Supply Service²**, 1031 Logan, Helena, Montana
 Audio Visual Equipment and Supplies
 Ampro Projectors and Tape Recorders
- Davis Audio-Visual Service²**, Terminal Sales Bldg., Portland, Oregon
- Educators Furniture & Supply Co., Inc.**, 557 Roy St., Seattle, Washington
 and: 320 S. W. Stark, Portland, Oregon
 Furniture and Equipment for Complete School Installations
 Educators Factory Built Classroom Cabinets
 Educators Classroom Furniture
 Schieber In-Wall Tables
 Gotham Chalkboard and Corkboard
 Samsonite Folding Chairs
- C. M. Fassett Co.³**, W. 9 Trent Ave., Spokane 1, Washington
 General Laboratory Apparatus and Chemicals
 Microscopes and Microprojectors
 Biological Supplies
 Physics Apparatus
 Instrument Repair
- General Films, Ltd.²**, 1534 13th Ave., Regina, Saskatchewan, Canada
- The J. K. Gill Co.**, 408 S. W. Fifth Ave., Portland, Oregon
 Branch: 2005 Third Ave., Seattle 1, Washington
 A. B. Dick Duplicating Products
 Peabody Seating—School Auditoriums
 Peterson Laboratory Furniture
 Globe-Wernicke Files and Desks
 Jasper Office Furniture
 Milton Bradley Company
 American Crayon Company
 Wayne Bleachers and Partitions
 Lyon Lockers, Shelving and Equipment
 Textbook Depository for 66 Publishers
 Serving Oregon, Washington and Alaska
- John W. Graham Co.¹**, 709-711 Sprague Ave., Spokane, Washington
 Branches: 401 Dexter Ave., Seattle, Washington
 2015 Canon St., Box 1208, Helena, Montana
 Griggs School Furniture and Auditorium Seating
 Ditto Duplicators and Supplies
 Audio Visual Equipment and Supplies
 Depository for All Leading Textbook Publishers,
 Serving Idaho, Montana, Washington, Oregon and Alaska
- Idaho Camera²**, 806 Main St., Boise, Idaho
- Inland Audio-Visual Co.²**, North 2325 Monroe St., Spokane 17, Wash.
- Johnson's Incorporated**, 23 S. Mission St., Wenatchee, Wash.
 A. B. Dick Duplicators and Audio Visual Equipment
- Kelly, Inc.**, 117 Yale Ave., North, Seattle 9, Washington
 Loxit: Chalkboard Setting System
 Loxit: Floor-Laying System
- Kohl Motion Picture Service²**, P. O. Box 2079, Anchorage, Alaska
- Moore's Motion Pictures²**, 1201 S. W. Morrison, Portland 5, Oregon
- Noise Control of Oregon, Inc.**, 3100 N. W. 29th Ave., Portland, Oregon
 Baker Scaffolds
- Noise Control of Seattle, Inc.**, 600 W. Nickerson St., Seattle 99, Washington
 Baker Scaffolds
- Northern School Supply Co.¹**, 2850 N. W. 31st Avenue, Portland, Oregon
 Branches: 2603 First Ave., Seattle, Wash.; N. 1118 Washington St., Spokane, Wash.; Great Falls, Montana
 American Crayon Co.—Art Supplies and Materials
 American Seating Co.—School, Church and Auditorium Seating
 Binney & Smith—Art Supplies and Materials
 Churchill Mfg. Co.—Maintenance Materials
 Draper Shade Co.—Window Shades
 Everwear Manufacturing Co.—Playground Equipment
 Fleetwood—Mobile Classroom Cabinets
 Medart—Gymnasium Equipment
 Midwest—Folding Tables, Choral Stands, Stages
 Myrtle Desk Company—Library and Office Furniture
 Sheldon Equipment Co.—Science, Industrial, Arts, Art & Music Equipment
 Squibb-Taylor—Opaque Projectors
 Stagecraft Industries—Theatrical Equipment and Supplies
 Victor Animatograph—Motion Picture Projectors
 Weber-Costello—Chalkboards, Maps, and Art Supplies
 Sales Representatives in all the Northwest and Alaska
- F. E. Osborne, Ltd.¹**, 112 Eighth Ave., W., Calgary, Alberta, Canada
- Owens Motion Picture Service²**, P. O. Box 5944, Portland 22, Oregon
- Pictures, Inc.²**, 427 G St., Anchorage, Alaska
- Pictures, Inc.²**, 611 N. Tillamook St., Portland, Oregon
- Rarig Motion Picture Co.²**, 5514 University Way, Seattle 5, Wash.
- Shaw Surgical Co.³**, 902 S. W. Yamhill St., Portland, Oregon
- B. F. Shearer Co.¹**, 2318 Second Ave., Seattle 1, Wash.
- Guy V. Sweet Company**, 5002 University Way, Seattle 5, Washington
 Erickson Fold-A-Way Tables with Benches
 Hamilton Laboratory Furniture and Drawing Tables
 Sjostrom Library Furniture and Manual Training Benches
 Vogel-Peterson Hat and Coat Racks
- Viewsound Supplies²**, 21 West Broadway, Vancouver 10, B. C., Canada

Washington School Supply Co.¹, 1716 Yale, Seattle 1, Washington
 Brunswick School Furniture—Classroom Cabinets
 Clarin Folding Chairs
 Folding Tables—Chair and Table Trucks

Brunswick Folding Stages, Bleachers, Partitions
 Brunswick Gymnasium Backstops
 Brunswick Wardrobes and Wall Closets
 Rice Steel Roller Window Shades

Region 10—California and 1/2 Nevada (Western)

A. S. Aloe Co.², 1150 S. Flower St., Los Angeles, Calif.
 and: 500 Howard St., San Francisco 5, Calif.

Audio Film Center², 406 Clement St., San Francisco, Calif.

Austin-Bentley Seating Co., 529 N. La Cienega Blvd., Los Angeles 48, Calif.
 Distributors Southern California
 J. E. Sjostrom Co., Phila., Library Furniture
 Peabody Seating Co., Auditorium Seating
 Wayne Iron Works, Wayne, Penna., Gym Stands
 Leonard Peterson Co., Chicago, Laboratory Furniture

J. M. Boyd Co.², 2032 S. Vermont Ave., Los Angeles 7, Calif.

The Braun Corporation², 2260 E. 15th St., Los Angeles 54, Calif.

Braun-Knecht-Heimann Co.², 1400 Sixteenth St., San Francisco 19, Calif.

Central Scientific Co. of California², 1040 Martin Ave., Santa Clara, Calif.

Frank Church Films, Inc.², 6117 Grove St., Oakland 9, Calif.

Clausontheu Audio Visual², 110 E. Shoppers Lane, Covina, Calif.

Coast Visual Education Co.², 5620 Hollywood Blvd., Hollywood 28, Calif.

Coast Visual Education Co.², Box 6545, Point Loma Station, San Diego 6, Calif.

Cottage Films², 13061 S. Jefferson St., Garden Grove, Calif.

Cramer Acoustics, 560 Ninth St., San Francisco 3, California
 Baker Scaffolds

H. S. Crocker Co., Inc.¹, 720 Mission St., San Francisco 1, California
 Branches: 1141 Fulton St., Fresno 16, California
 120 "K" St., Sacramento 14, California
 Arlington Seating School Furniture
 Old Town Duplicators and Supplies
 Globe-Wernicke Files—Desks
 Wilson Athletic Supplies and Equipment
 Complete Line of Supplies and Equipment

Wm. M. Dennis Film Libraries², 2506 1/2 W. 7th St., Los Angeles 57, Calif.

Educators Furniture & Supply Co., Inc., 5912 "R" St., Sacramento 17, California
 and: 5800 E. 2nd St., Long Beach, California

Furniture and Equipment for Complete School Installations
 Educators Factory Built Classroom Cabinets
 Educators Classroom Furniture
 Schieber In-Wall Tables
 Gotham Chalkboard and Corkboard
 Samsonite Folding Chairs

Caswell C. Elkins Co.², 835 Santa Barbara Road, Berkeley 7, Calif.

Herbert Elkins Co.², 10031 Commerce Ave., Tujunga, Calif.

Adolph Frese Corporation², 116 W. 17th St., Los Angeles 15, Calif.

Fresno Camera Exchange², 2037 Merced St., Fresno, Calif.

Gateway Productions Inc.², 1859 Powell St., San Francisco 11, California

Harshaw Scientific, Div. of Harshaw Chemical Co.², 3237 S. Garfield Ave., Los Angeles 22, California
 Laboratory Instruments, Apparatus and Chemicals

Hillhouse, Inc.¹, 181 Commercial St., Sunnyvale, Calif.

Knight's Library², 527 University Ave., San Diego 3, Calif.

Lightmaster Screen Co., Bldg. 57, 12270 Montague St., Pacoima, California
 Projection Screens for Daytime Projection

Long Film Slide Service², 7505 Fairmount Ave., El Cerrito, Calif.

W. F. Ludlum², 1790 N. Catalina Ave., Pasadena 6, Calif.

McCurry Foto Co.², 8th & Eye Sts., Sacramento 14, Calif.

Merkle Film Library², 1734 Pacific Ave., Long Beach 13, Calif.

A. F. Milliron Co.², 1198 S. La Brea, Los Angeles 36, Calif.

National Research & Chemical Co.², 12520 Cerise Ave., Hawthorne, Calif.

Pacific Film Library², 104 Fountain Ave., Pacific Grove, Calif.

Photo & Sound Co.², 116 Natoma St., San Francisco 5, Calif.

Ralke Company Inc.², 829 S. Flower St., Los Angeles 17, California
 Eastman Audio Visual Dealer
 Ampro, Ampex
 Bell & Howell and TDC Slide Projectors
 American Optical
 Neumade Equipment

Redlands Audio-Visual Sales & Service², 10 W. Citrus Ave., Redlands, Calif.

Donald Reed Motion Picture Service², 297 S. Robertson Blvd., Beverly Hills, Calif.

B. F. Shearer Co. of California¹, 1964 S. Vermont Ave., Los Angeles, Calif.

B. F. Shearer Co. of California¹, 243 Golden Gate Ave., San Francisco, Calif.

Ty Sidener Company^{1, 2}, 2114 K St., Sacramento, Calif.

Smith & Holst Film Libraries², 2408 W. 7th St., Los Angeles 5, Calif.

Stationers Corporation¹, 525 South Spring St., Los Angeles, California
Branch: 1055 Sixth St., San Diego, California
Manufacturers of Diplomas and Engraved Announcements and Certificates

Art Materials and School Supplies
Peabody Seating Company, Inc., Classroom Furniture
All-Steel Equipment Co., Steel Desks, Files and Chairs

Teaching Aids Exchange², 711 Sycamore Ave., Modesto, Calif.

Tingey Co.², 847 Divisadero St., Fresno, Calif.

University Apparatus Co.³, 2229 McGee Ave., Berkeley 3, Calif.

Valley Office and School Equipment Co.¹, 1622 19th St., Bakersfield, Calif.

Western Surgical Supply Co.³, 661 S. Burlington Ave., Los Angeles 5, Calif.

The Wholesale Supply Co.¹, 6500 Santa Monica Blvd., Los Angeles 38, Calif.

Region 11—Texas, Arkansas, Louisiana, Oklahoma

Acoustics and Specialties Co., 1227 Hibernia Bank Bldg., New Orleans 12, Louisiana
Baker Scaffolds

R. Fred Adkins Co.², 1705 34th St., Lubbock, Texas

All State Supply Inc.^{1, 2}, 1212 E. 6th St., Little Rock, Arkansas

A. S. Aloe Co.³, 1425 Tulane Ave., New Orleans 13, La.

Audio Visual Services², 2310 Austin St., Houston 3, Texas

The Harve Avants Associates¹, 2974 Park Hill Drive, Fort Worth 9, Texas
Heywood-Wakefield—Classroom, Auditorium Stadium
Clarín—Complete Line of Folding Seating
Wayne—Gymstands, Goals, Folding Walls, Grandstands
Other Leading Brands of Furniture and Equipment
All Requirements Kindergarten to University

Bauer Audio Video², 2911 N. Haskell, Dallas 4, Texas

Bickley Brothers, Inc.¹, 2017 Preston Ave., Houston 2, Texas
Gymnasium and Playground Equipment
Classroom Furniture and Equipment
Bleachers, Lockers, Shelving, and Shop Furniture
Auditorium and Cafeteria Seating
Office Furniture and Church Furniture

Boren-Malone Co.¹, 517 Choctaw Ave., Chickasha, Oklahoma
Athletic Goods and Sportswear
School Supplies and Equipment

Bradshaw & Harman², 1608 S. Congress, Austin 4, Texas

Braunlich Equipment Co.², 936 South Canton, Tulsa, Oklahoma
Ampro Corporation Projectors and Tape Recorders
Beckley-Cardy Company Chalkboard and Cork Boards
Heywood-Wakefield Company School Furniture
J & J Tool & Machine BeLa Tubular Steel Folding Chairs
Mitchell Band Stands, Folding Tables, In-Wall Folding Tables

Chemical & Laboratory Supply³, Wichita Falls, Texas

Community Sound Film Service², 2610 Fannin St., Houston, Texas

Cone Training Aids², 2320 Fannin, Houston, Texas

Consolidated Drug Co.³, 227 S. Peters St., New Orleans 12, La.

Cory Motion Picture Equipment², 522 N. Broadway, Oklahoma City, Okla.

W. H. Curtin & Co.³, P. O. Box 1491, New Orleans, La.

W. H. Curtin & Co.³, P. O. Box 118, Houston 1, Texas

Delta Visual Service, Inc.², 815 Poydras St., New Orleans 12, La.

Democrat Printing & Litho. Co.¹, 114 East 2nd St., Little Rock, Arkansas

Denver Fire Clay Co.³, 1309 Texas St., El Paso, Texas

Dowling's, Inc.^{1, 2}, 607 W. Grand Ave., Oklahoma City, Okla.
Branch: 1904 East 11th, Tulsa, Okla.

Du Motion Picture Service², 179 N. Cotton Ave., El Paso, Texas

Clarence J. Du Bos & Sons¹, 2654 St. Louis St., New Orleans 19, La.

American Desk School Furniture
Playground Equipment
Maps and Globes
Folding and Primary Chairs
Teaching Aids and Art Supplies

8-16mm Film Headquarters², 614 DuPont Drive, Orange, Texas

- Jasper Ewing & Sons, Inc.**², 725 Poydras St., New Orleans 12, La.
- Greene Brothers Div., W. H. Curtin & Co.**³, P. O. Box 5304, Dallas, Texas
- Gulf States Equipment Co.**¹, 1305-7 S. Akard St., Dallas 2, Texas
- F. F. Hansell Bros., Ltd.**¹, 131 Carondelet St., New Orleans 12, La.
- Harshaw Scientific, Div. of Harshaw Chemical Co.**³, 6622 Supply Row, Houston 11, Texas
Laboratory Instruments, Apparatus and Chemicals
- Hertner's**², 114 W. 6th Ave., Amarillo, Texas
- W. C. Hixson Company**³, 205 N. Austin St., Dallas 2, Texas
Branch: 1915 S. Shepherd Drive, Houston, Texas
Kewaunee Laboratory Furniture and Hospital Casework
Mutschler Cooking and Sewing Laboratory Cabinetry
Medart Gym Seats, Lockers, Wardrobes, Basketball Backstops, Wire Baskets and Shelving
N. Y. Silicate Chalkboard, Tackboard and Display Cases
Technical Arts & Crafts Furniture
- Holmes & Torbett, Inc.**², 2902 Denver, Muskogee, Okla.
- Hoover Brothers, Inc.**¹, 1305 North 14th St., Temple, Texas
Classroom Seating
School Supplies
Safway Bleachers
Audio Visual Equipment
Laboratory Furniture
- Ideal Building Materials, Inc.**¹, 1730 Claiborne Ave. (Box 1545), Shreveport, Louisiana
Chalkboard-Tackboard-Trim
Lockers, Baskets, Racks, etc.
Folding Bleachers, Stages, Partitions
Builders Hardware
Gym and Playground Equipment
Folding Doors
Flagpoles
- Industrial Scientific, Inc.**³, 2920 Shotts St., Box 509, Fort Worth, Texas
Microscopes, Reagent Chemicals and Apparatus
- Kirkpatrick, Inc.**², 1634 S. Boston Ave., Tulsa 14, Okla.
- Legsdon & Reed Co.**², 1420 Dragon St., Dallas, Texas
- Lone Star Seating Company**, 3509 Dartmouth, P. O. Box 1734, Dallas, Texas
Lyon-Durham-Krueger Folding Chairs, Central Bleachers
- I. L. Lyons & Co.**³, 800 Techonpitoulas St., New Orleans, La.
- Metal Specialties Co.**¹, 1525 Elysian Fields Ave., New Orleans, Louisiana
Stainless Steel Sink and Counter Tops
Chalkboards, Corkboards and Bulletin Boards
Laboratory and Homemaking Classroom Equipment
Lomit Floor Systems for Gymnasiums
Formica Counter Tops
- Miller's Visual Aids, Inc.**², 519 Pennsylvania, Fort Worth, Texas
- Mine & Smelter Supply Co.**³, 410 San Francisco St., El Paso, Texas
- Murray-Baker-Frederic, Inc.**³, New Orleans, La.
- Oklahoma Seating Co.**¹, 19 W. Main St., Oklahoma City 2, Okla.
- Practical Drawing Company**¹, P. O. Box 5388, Dallas 22, Texas
Arts and Crafts Materials
Teaching Aids and Devices
Miscellaneous Supplies and Equipment
- Reagan's Audio Visuals**², P. O. Box 865, Dickinson, Texas
- The Refinery Supply Co.**³, 621 East 4th St., Tulsa, Okla.
- Rowley Co., Inc.**¹, 619 Baronne St., New Orleans 12, La.
- E. H. Sargent & Co.**³, 5915 Peeler St., P. O. Box 6703, Dallas 19, Texas
- School Products Company**¹, 2920 Chartres St., New Orleans 17, La.
- Donald L. Smith Co.**², 1110 Main Ave., P. O. Box 1736, San Antonio 6, Texas
- W. G. Smith Co.**¹, 803 Heights Blvd., P. O. Box 7462, Houston 8, Texas
Leonard Peterson Laboratory Furniture
Home Economics Furniture
Library Furniture
Auditorium Seating
Draper Darkening Shades
Leavitt Products Bleachers
Knockdown Bleachers
Steel Grandstands
Add-A-Seat Stadium
Lockers
Claridge Products Chalkboards
Bulletin Boards
Aluminum Trim
Natural Slate Blackboards
Playground Equipment
Game-Time Basketball Backstops
- Sooner Acoustical Co.**¹, 519 N. Kentucky, Oklahoma City, Oklahoma
Baker Scaffolds
- Sound Photo Sales Co.**², 2107-A Broadway, Lubbock, Texas
- South Texas Visual Inc.**², 1917 Leopard, Corpus Christi, Texas
- Southwestern Seating Co.**¹, 307 Martinez St., San Antonio 3, Texas
- Stanley Projection Co.**², 1117 Bolton Ave., Alexandria, Louisiana
Distributors for EASTMAN KODAK
Victor Animatograph Corp.
Standard 500 Filmstrip Projectors
Coronet Instructional Films
Popular Science Publishing Co.
Jam Handy Organization
Complete Audio-Visual Service

Charles G. Stidham Co.², 1508 Fredericksburg Road, San Antonio 1, Texas

Straus-Frank Co., 4000 Leeland Ave., Houston 1, Texas
Baker Scaffolds

Texas Educational Aids², 4006 Live Oak, Dallas 4, Texas

Texas Educational Aids², 2606 Fannin, Houston, Texas

Texas Educational Aids², 125 S. Broadway, Tyler, Texas

Thompson Book & Supply Co.¹, 926 E. Main St., Ada, Okla.

United Tile Company, 501 Good Latimer Road, Dallas 26, Texas
Baker Scaffolds

Vaseco, Inc.², 2301 Classen Blvd., Oklahoma City 6, Okla.

D. E. Wedge & Co., 1004 E. Missouri St., El Paso, Texas
Telephone Keystone 2-6227
Folding Doors and Partitions
Laboratory Furniture and Equipment
Library Shelving, Storage Shelving, and Storage Cabinets
Lockers, Locker Benches, and Folding Chairs
Shop Equipment and Work Benches

Region 12—Utah, Colorado, New Mexico, Arizona, 1/2 Nevada (Eastern) and 1/2 Wyoming (Southern)

Akin & Bagshaw Film Library², 2027 W. Colfax Ave., Denver 6, Colo.

Allied Supply Co.¹, 2122 Central Ave., E., P. O. Box 1568, Albuquerque, New Mexico

American Paper & Supply Co.¹, 444 S. Second West St., Salt Lake City 4, Utah

American School Supply Co.¹, 1514 Arapahoe, Denver 2, Colo.

Audio-Visual Center², 28 E. Ninth Ave., Denver, Colo.

Braun-Knecht-Heimann Co.³, 650 W. 8th South, Salt Lake City, Utah

Martin Budish Co.², 1719 S. Kearney St., Denver, Colo.

Lauren Burt, Inc., 3254 Walnut St., Denver 5, Colorado
Baker Scaffolds

Lauren Burt, Inc., 557 S. Third West, Salt Lake City 1, Utah
Baker Scaffolds

Centennial School Supply Co.¹, Box 5224, Terminal Annex, Denver 17, Colo.

Colorado Visual Aids Supply², 1624 Broadway, Denver 3, Colo.

Culver Electronic Co.², 231 N. First Ave., Phoenix, Arizona

Davis Audio-Visual Co.², 2023 E. Colfax Ave., Denver 6, Colo.

Denver Fire Clay Company³, 3033 Blake St., Denver 17, Colorado
Incinerators
Heat Treating and Melting Furnaces
Gas and Oil Burners
Metallurgical Clay Goods and Refractories
Ceramic Equipment and Supplies

Denver Fire Clay Company³, 225 W. South Temple, Salt Lake City 1, Utah

Deseret Book Co.², Audio-Visual Department, 44 East South Temple St., Salt Lake City 10, Utah

Kelton Audio Equipment Co.², 808 N. 1st St., Phoenix, Arizona

Kistler's, 1636 Champa St., Denver 17, Colorado
Heywood-Wakefield School Furniture
Educators Classroom Cabinets

Larick Specialties Inc., 955 Folsom Ave., Salt Lake City 4, Utah, Phone—Davis 8-8534
Wayne Rolling Gymstands and Partitions
Erickson Folding Cafeteria Tables, Band and Choir Risers
Chalk and Tackboards—In-The-Wall Tables
Basketball Backstops—Fair-Play Scoreboards
Dudley Locks—All-Steel Lockers—General School Furniture

R. E. Leggette Co. of New Mexico, 2020 Second St., S. W., Albuquerque, New Mexico
Baker Scaffolds

Marston Supply Co.¹, 3209 N. Central Ave., P. O. Drawer 1390, Phoenix, Arizona

Mine & Smelter Supply Co.³, 1422 17th St., Denver 17, Colo.

Movie Center Inc.², 119 W. McDowell Road, Phoenix, Ariz.

New Mexico School Supply^{1, 2}, 509 Second St., N. W., Albuquerque, New Mexico

PBSW Supply and Equipment Co.^{1, 2}, Box 551, 530 W. Washington St., Phoenix, Arizona

School and Sports Supply Co.¹, 326 W. Jefferson, Phoenix, Arizona

Utah-Idaho School Supply Co.¹, 155 S. State St., Salt Lake City, Utah

Visual Air Center², 1457 S. Broadway, Denver 10, Colo.

Z.C.M.I. Wholesale Distributors¹, Contract Furnishings
Dept., 1665 Bennett Road, Salt Lake City, Utah
Medart Gym Seats, Basketball Backstops, Lockers
Dubuque Products—Coil Wall
Emco Folding Partitions and Emco Wardrobes
Ideal Auditorium Seating
National Multi-Purpose Classroom Cabinets

Z.C.M.I. Audio-Visual Products², P. O. Box 1109, Salt Lake City, Utah

Hawaii

Wadsworth's Photo Materials, Ltd.², 1164 Waimanu St., Honolulu 14, T. H.

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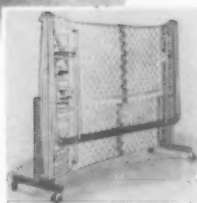
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Only **AMERICAN** Trampolines Offer You All These Features!



American Trampoline offers four folding trampolines. All four units will give you the top flight performance and construction features found only in American Trampolines. Complete satisfaction guaranteed on all American Trampoline equipment.



• EXCLUSIVE FRAME DESIGN

Built of finest welded tubular steel. Features many engineering firsts . . . including spaced dual side and end rails, exclusive hanger bar for best suspension hookup, flat double action steel hinges, and triple bridged leg sections.

• STRONGER SUSPENSION SYSTEM

Stronger loop rubber cables give better performance, longer life. Oil tempered springs also available as standard equipment.

• HEAVY DUTY BED

Made of 1 3/4" nylon webbing, triple stitched under tension on American Trampoline's precision looms. (Also available with 1" nylon webbing.) Cotton duck and nylon canvas beds also available.

• THREE WAY FOLD

Folds quickly for easy transportation and storage. New stronger, balanced, positive lock, roller stands for easier transporting are standard equipment.

*American Trampolines
meet all*

AAU & NCAA Specifications

*PRICES AND SPECIFICATIONS

"COLLEGIAN" (Regulation Size)

6' x 12' Bed, 9' x 15' Frame—

Shipping wt. 400 lbs.

Model		Price
SC-612	Steel springs, canvas bed	\$398.00
SNC-612	Steel springs, nylon canvas bed	433.00
RNC-612	Steel springs, nylon web bed	498.00
RNW-612	Rubber trampoline cables, nylon canvas bed	483.00
RNW-612	Rubber trampoline cables, nylon web bed	548.00
P-612	Frame pads (Complete set)	65.00
EP-612	Frame pads (End pads only)	22.00

"COMPETITOR" (Junior High Size)

5' x 10' Bed, 12'6" x 8' Frame—

Shp. wt. 250 lbs.

FF-510	Steel springs, canvas bed	\$269.00
P-510	Frame pads (Complete set)	55.00

"ALL-AMERICAN"

7' x 14' Bed, 10' x 17' Frame—

Shipping wt. 450 lbs.

Model		Price
SNW-714	Steel springs, nylon web bed	\$570.00
RNW-714	Rubber trampoline cables, nylon web bed	625.00
P-714	Frame pads (Complete set)	75.00
EP-714	Frame pads (End pads only)	26.00

"JUNIOR COMPETITOR" (Elementary School Size)

4' x 8' Bed, 10'6" x 7' Frame. Shp. wt. 175 lbs.

FF-48 Steel springs, canvas bed . . . 198.00

P-48 Frame pads (Complete set) . . . 45.00

Accessories and replacement parts available for all trampolines. Free instruction chart and textbook with each unit.

TRAMPOLINE ACCESSORIES

Gym Tramp	\$ 59.00
Training Rig	125.00
Tumbling Belt	12.00
Textbook (by Larry Griswold)	3.75
Larry Griswold Bed	185.00
6' x 12' Nylon Canvas Bed	120.00
6' x 12' Nylon web bed (1 3/4" or 1" webbing)	185.00
7' x 14' Nylon web bed (1 3/4" or 1" webbing)	215.00
6' x 12' canvas bed	85.00
5' x 10' canvas bed	62.50
4' x 8' canvas bed	40.00
12" Rubber trampoline cables each	.85
8 1/2" Oil tempered steel springs each	.32
6" Oil tempered steel springs each	.25
Trampoline trailer	200.00

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The body developer that is fun!

For . . .

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- Playgrounds
- Beaches • Families

The most popular outdoor trampoline is this economical slip joint unit. The same quality workmanship and materials make these units as durable and strong as American's famous Collegian model. These units break down into sections for easy storage when not in use. Double thickness heavy canvas bed is suspended by top performing oil tempered springs. Rubber padded legs prevent damage to floors.

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Model N-36A Dive-O-Tramp



Model N-40A Dive-O-Tramp in action!

*PRICES

N-36A	\$79.95
N-40A	\$99.95

*All prices F. O. B. Jefferson, Iowa. All prices subject to change without notice.

*PRICES AND SPECIFICATIONS

MODEL F48		\$ 99.50
Tubular steel frame 10'6" x 7', bed 4' x 8'.		
Shipping wt. 150 lbs.		
MODEL F510 (ILLUSTRATED ABOVE) MOST POPULAR SIZE		149.50
Tubular steel frame 12'6" x 8', bed 5' x 10', Shipping wt. 200 lbs.		
MODEL F612		249.50
Tubular steel frame 14'6" x 9', bed 6' x 12', Shipping wt. 300 lbs.		

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